

FIG 1A

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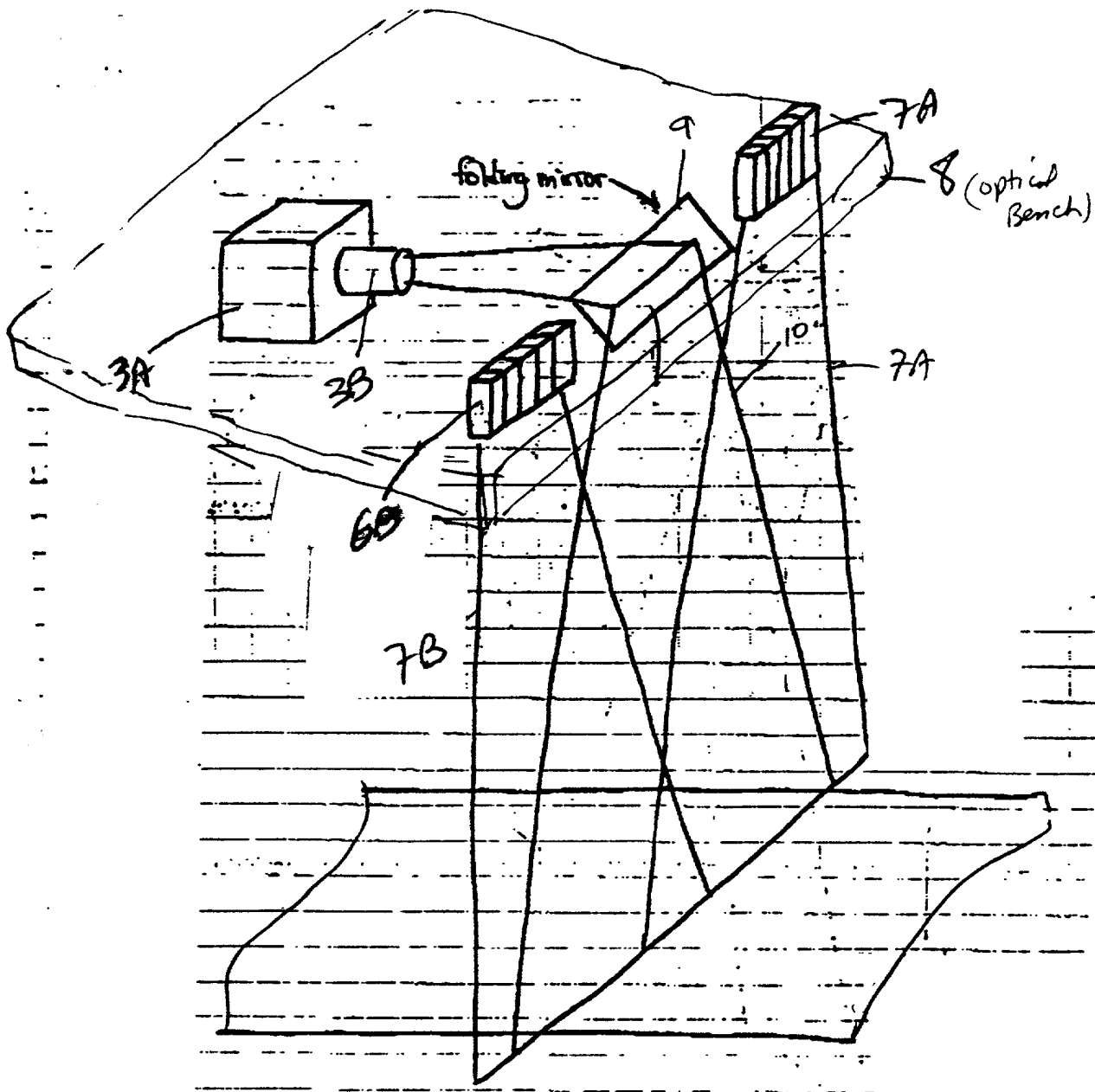


FIG. 1B1

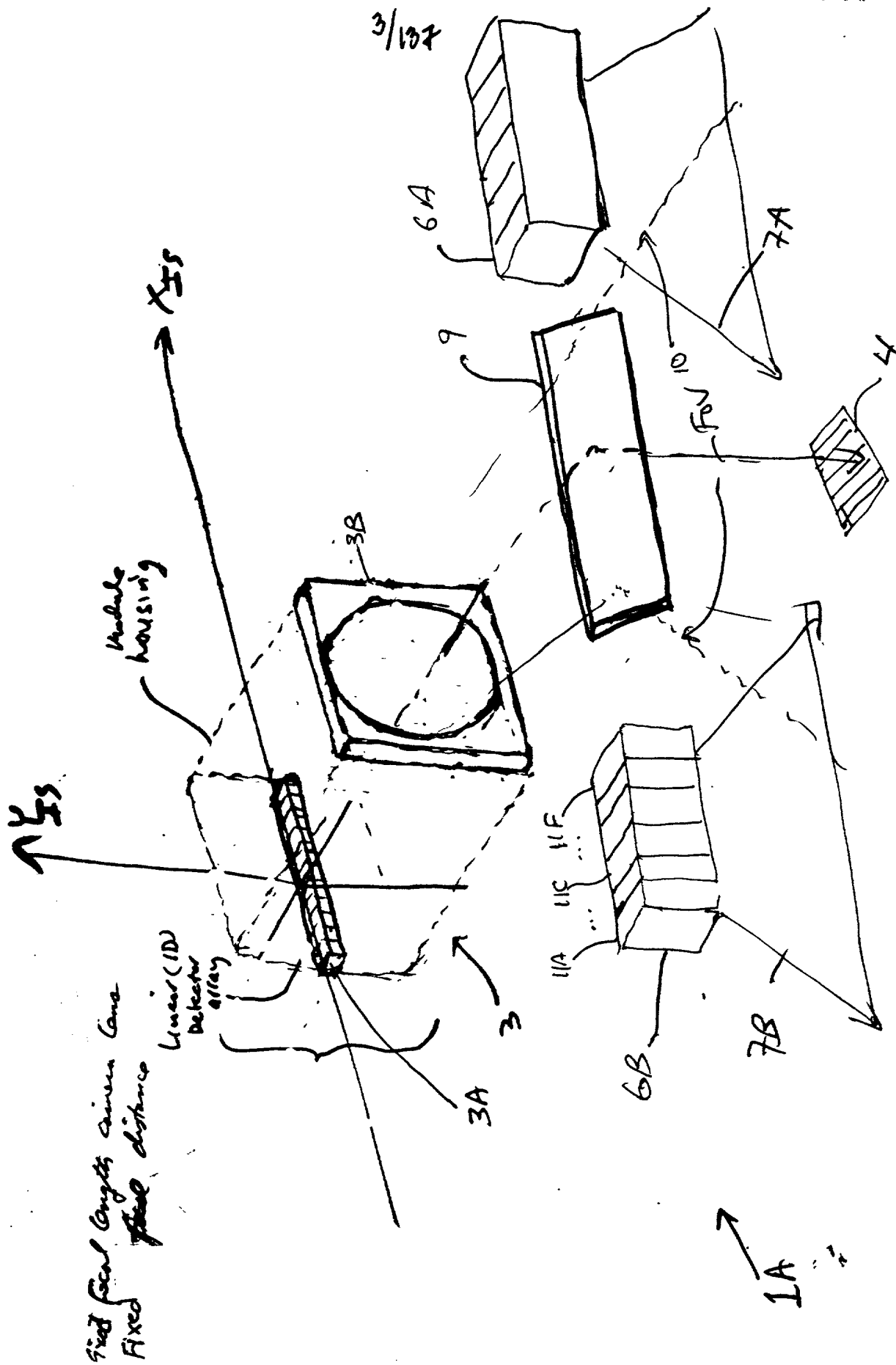


FIG. 1B2

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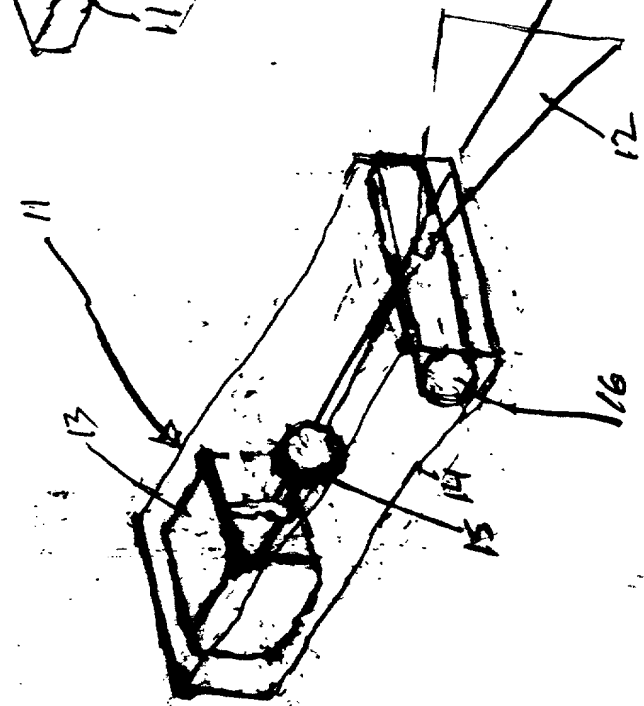


FIG. 1C

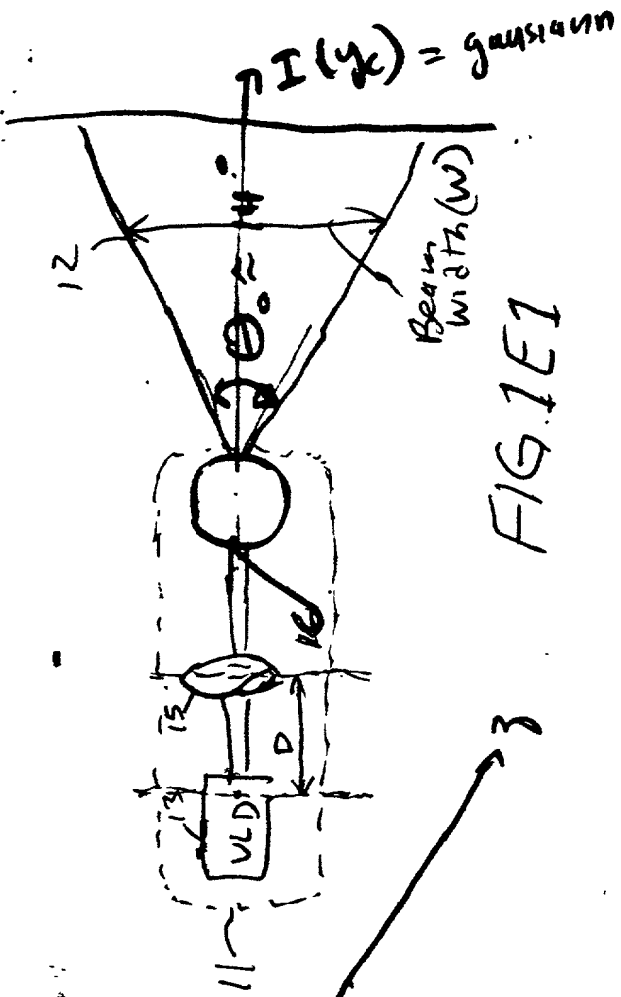


FIG. 1E1

FIG. 1D

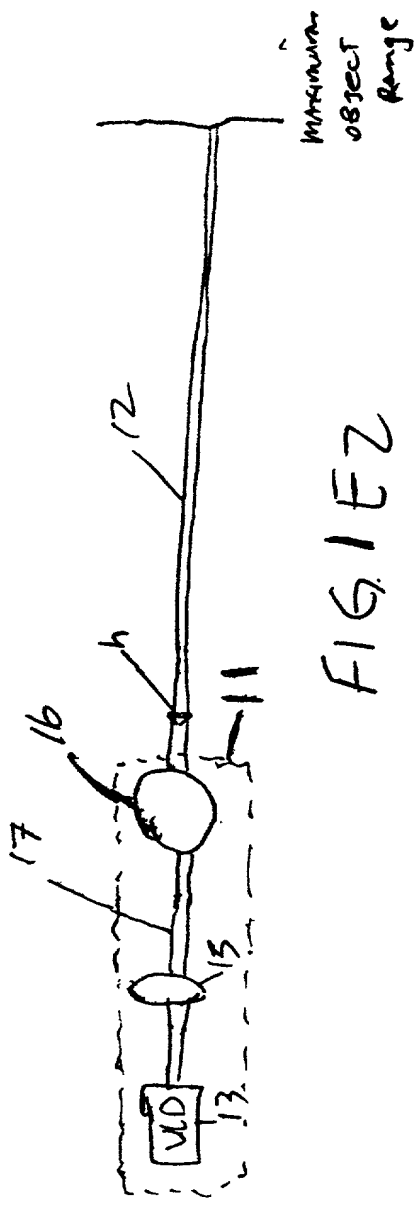


FIG. 1E2

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Fixed focal length 1/1.1 sec

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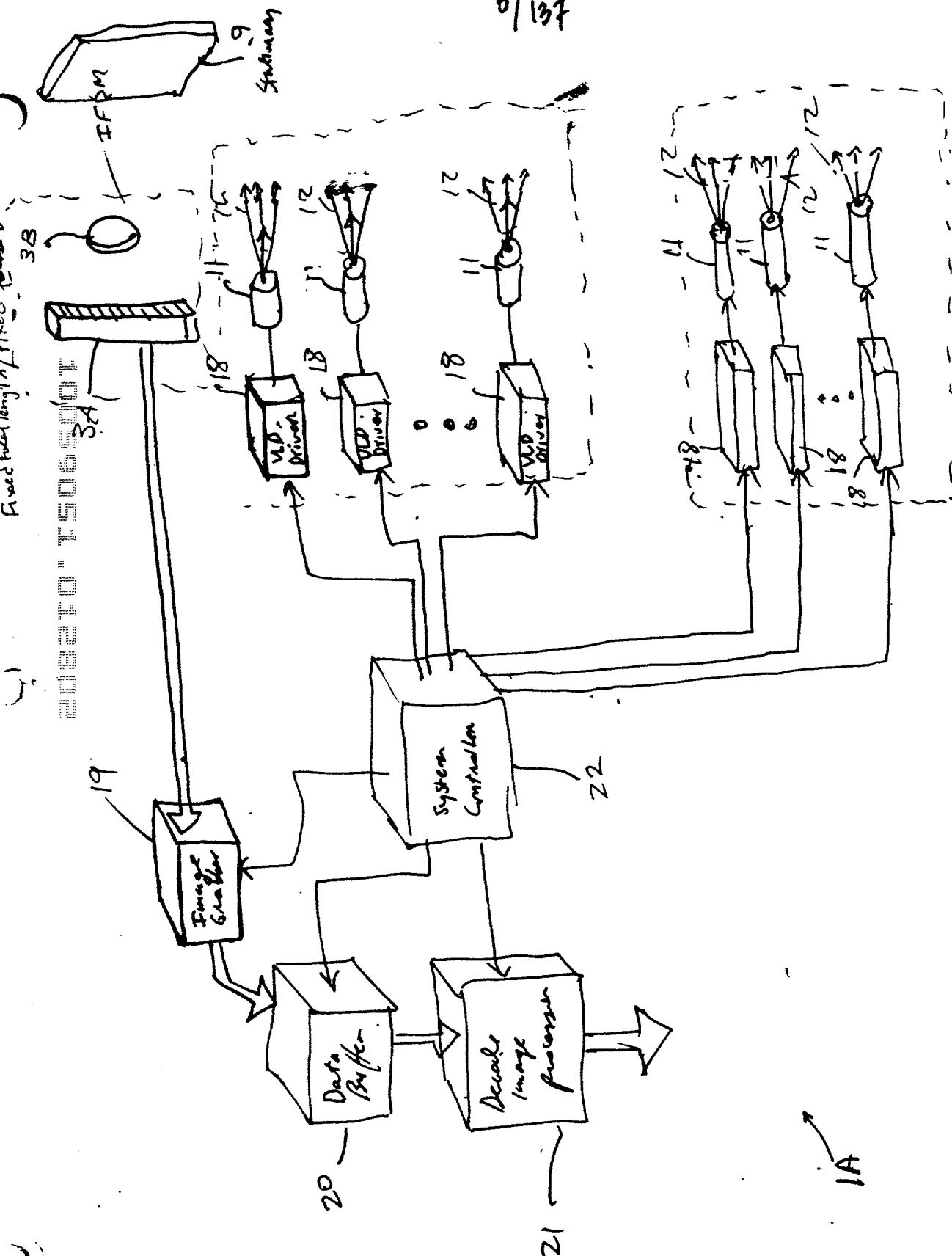


FIG. 1F

[illegible]

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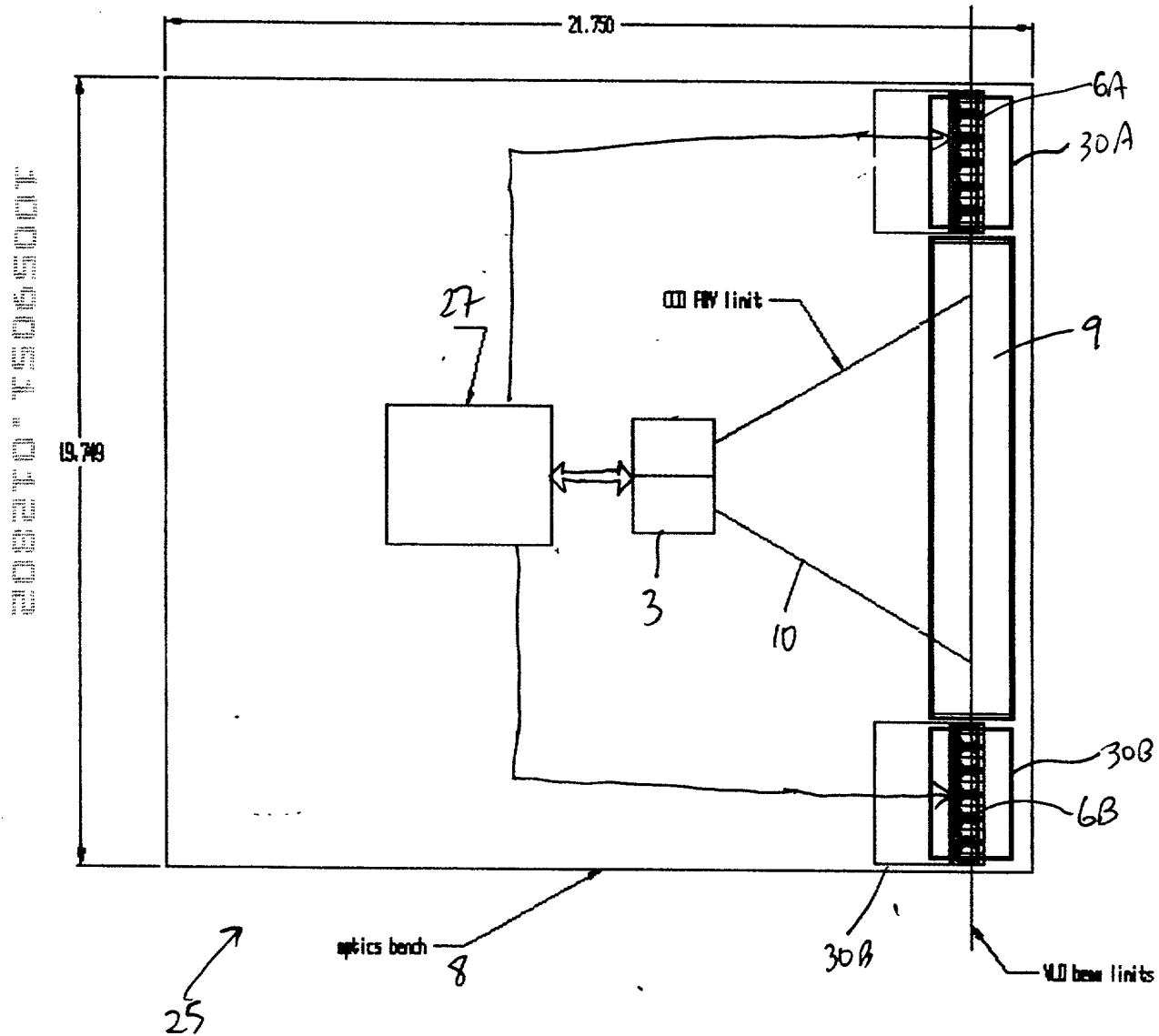


FIG. 162

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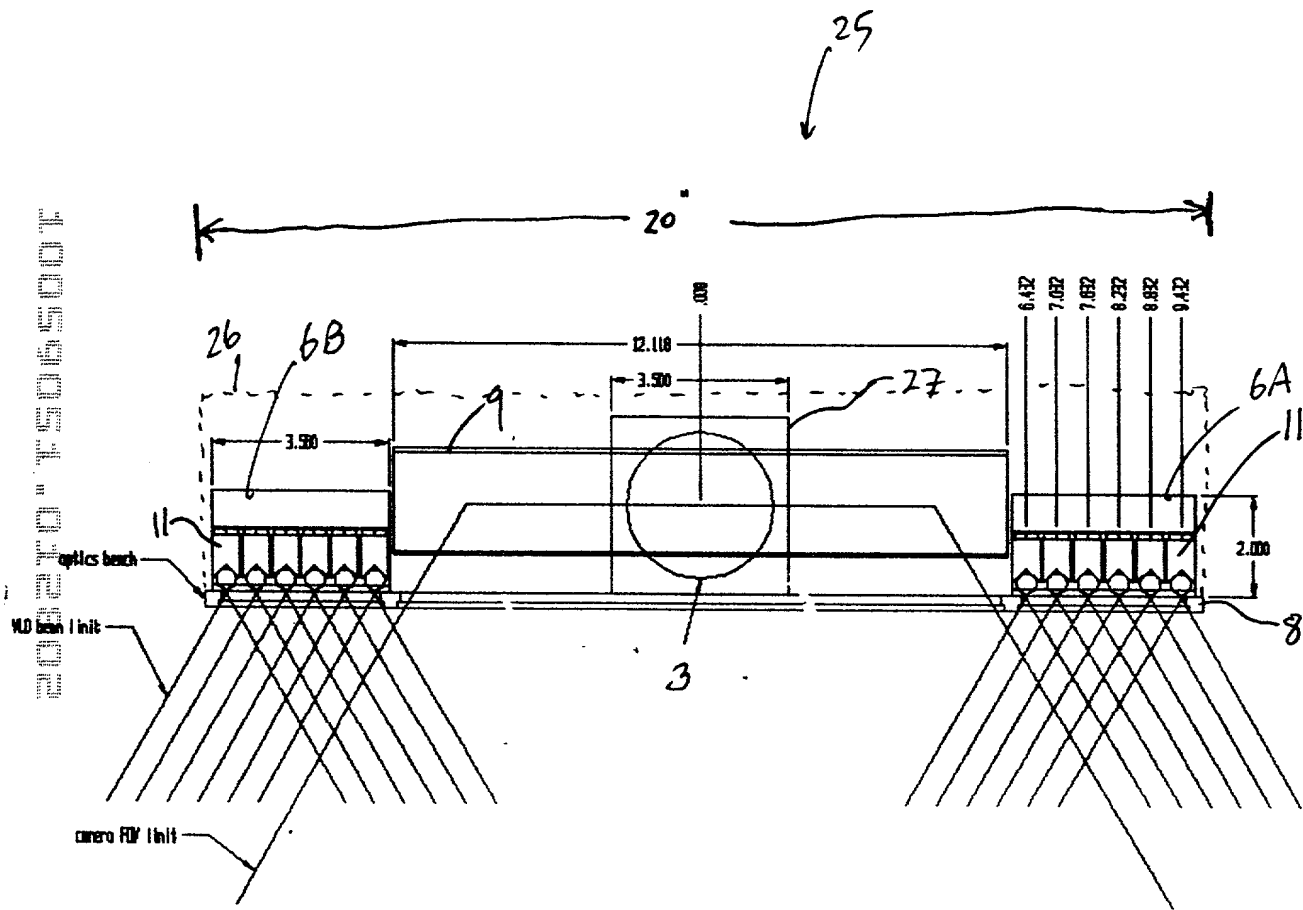


FIG. 1G3.



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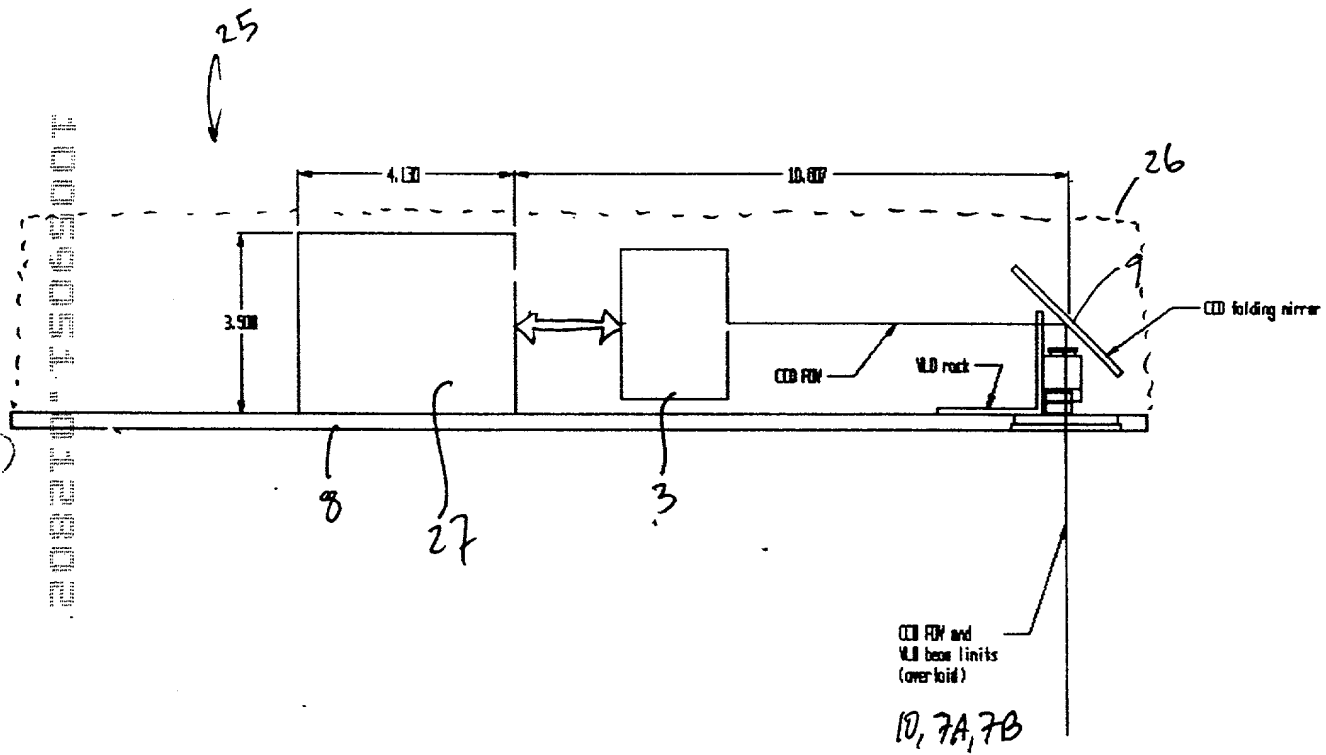
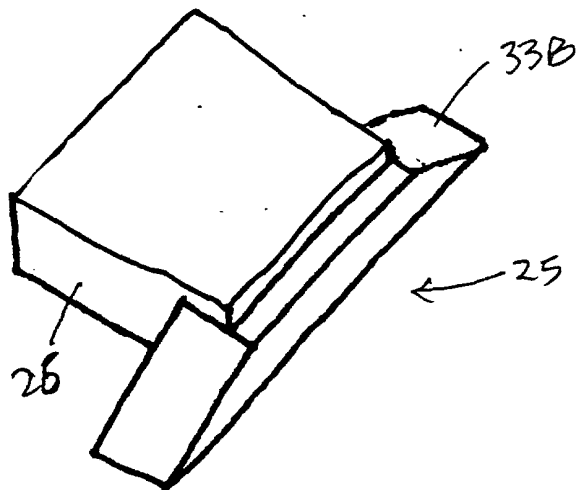
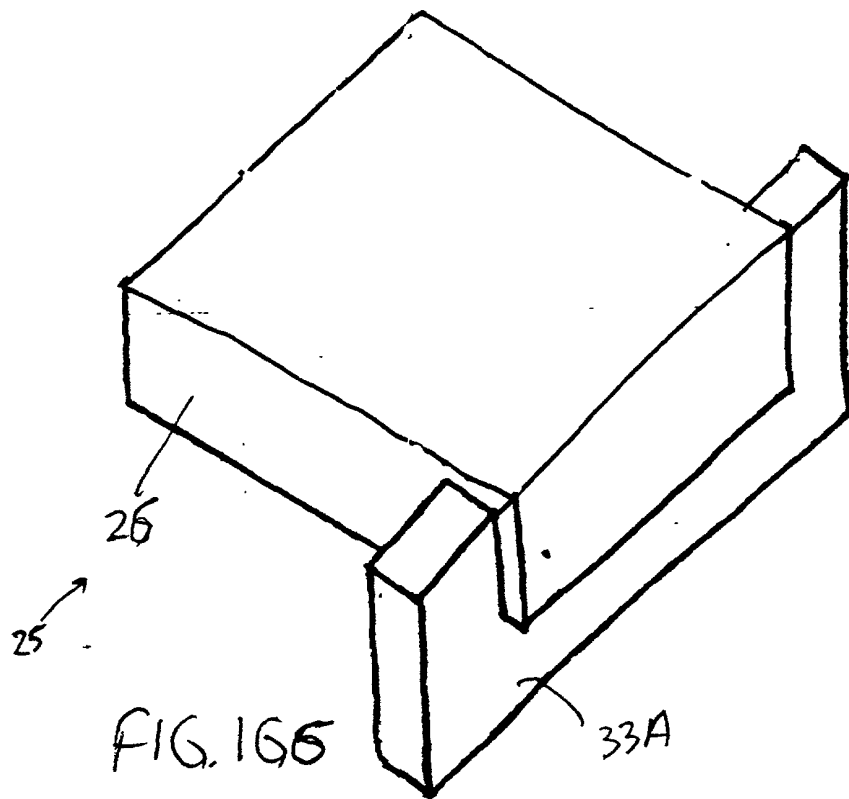


FIG. 1G4

[illegible]

FIG. 165

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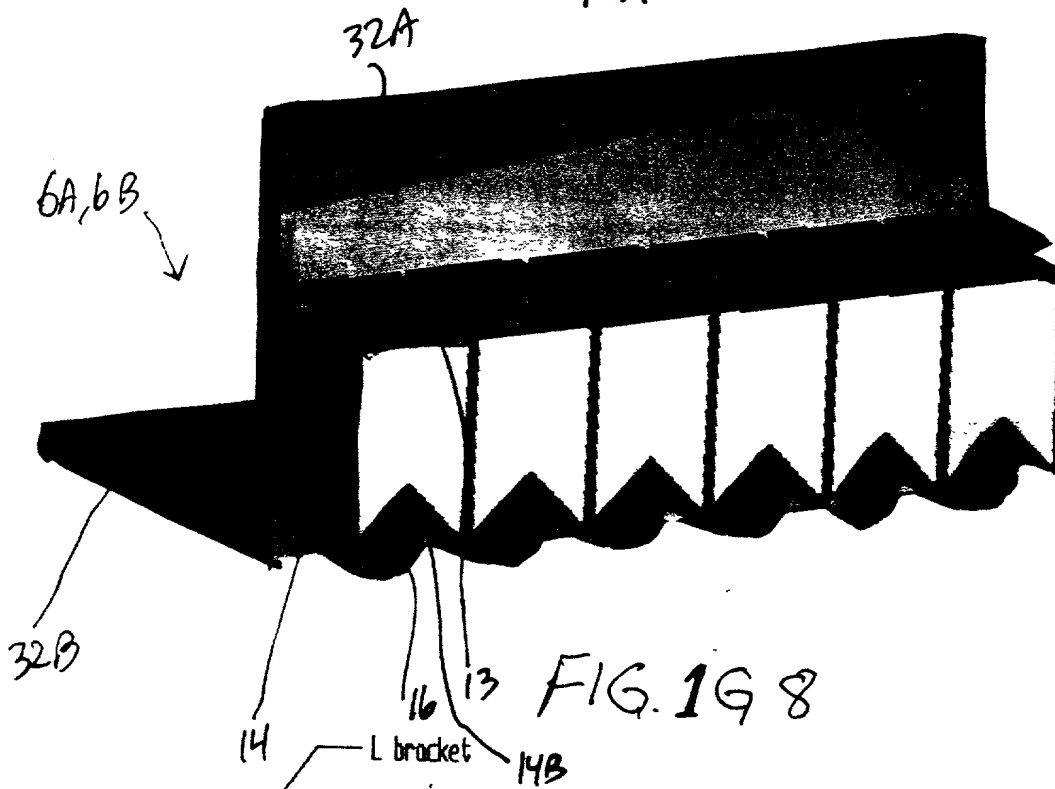


FIG. 1G.8

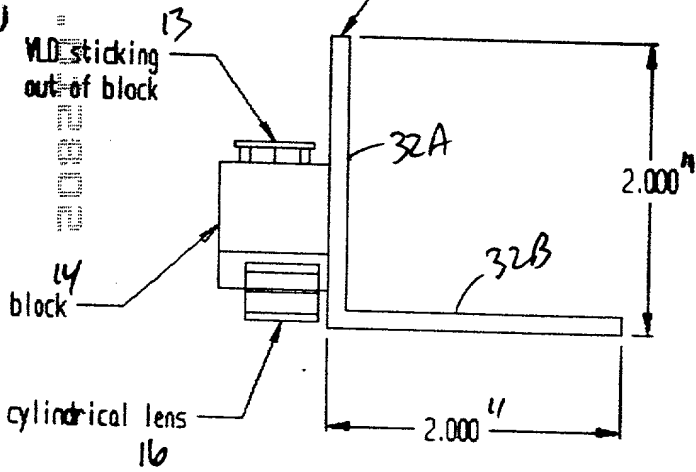


FIG. 1G.9

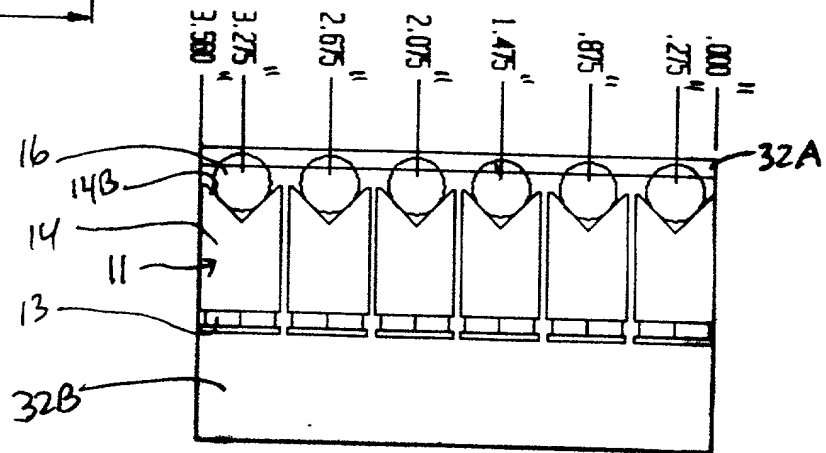
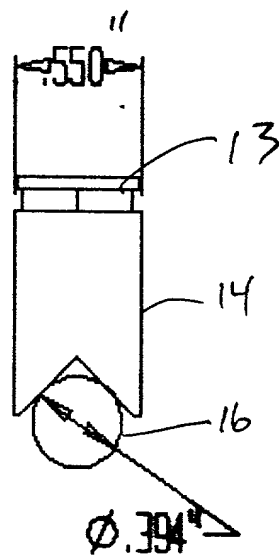
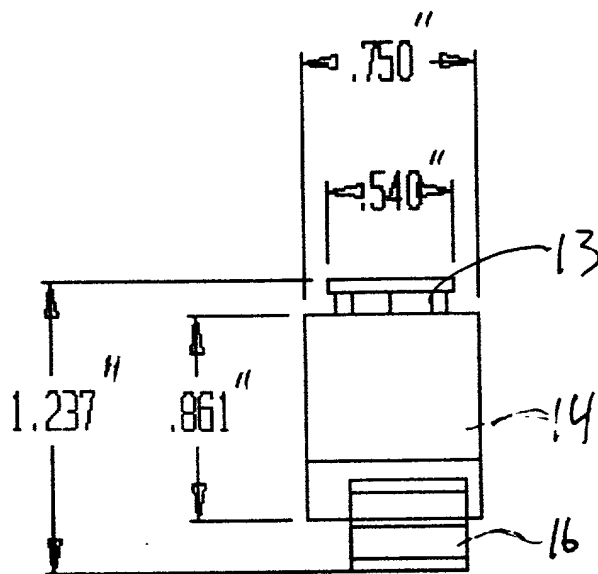


FIG. 1G.10

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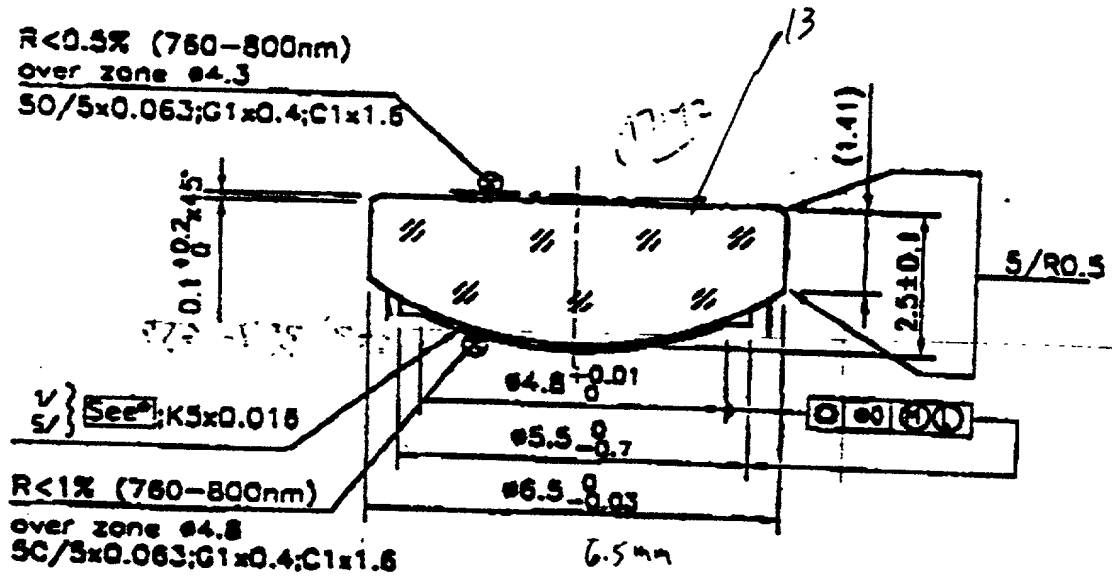


FIG. 1H1

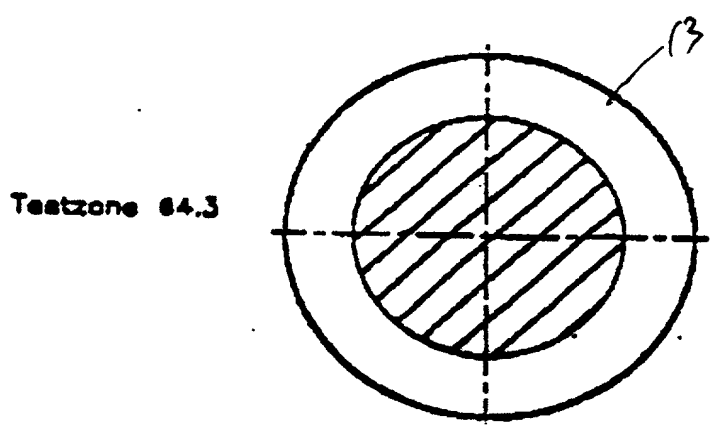


FIG. 1H2

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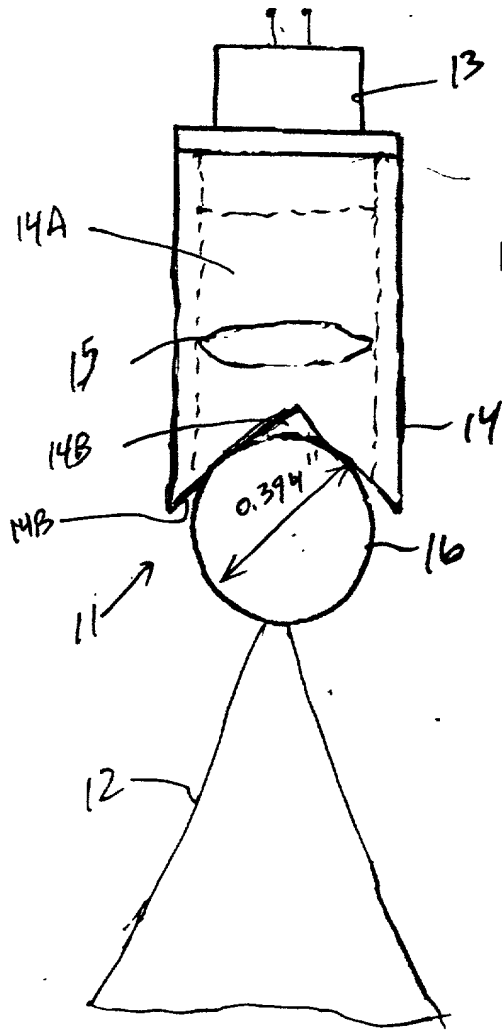


FIG. 1I1

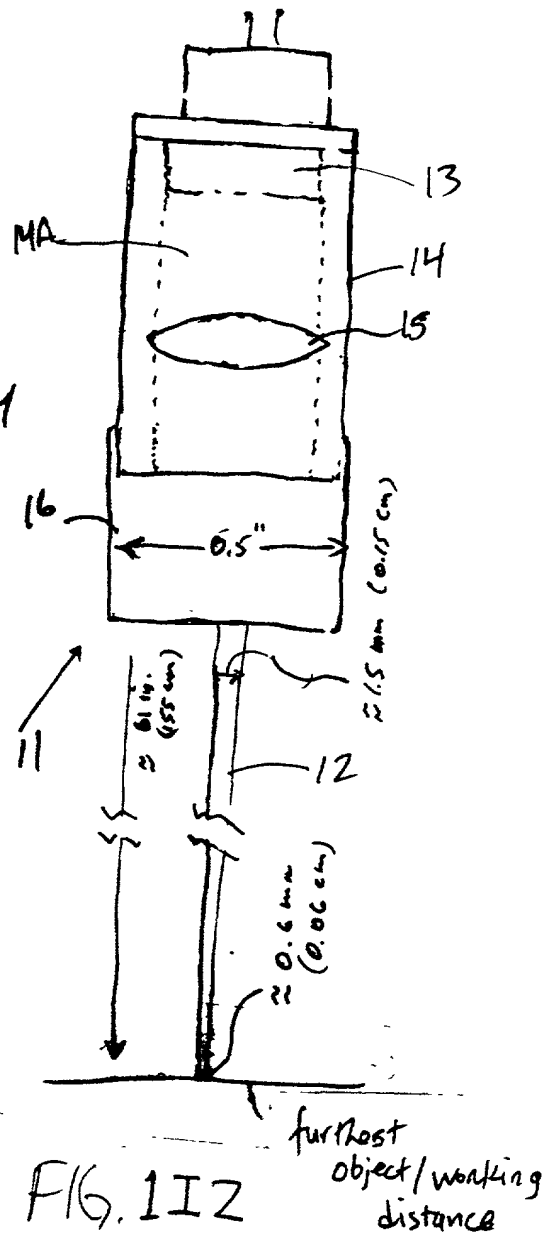


FIG. 1I2

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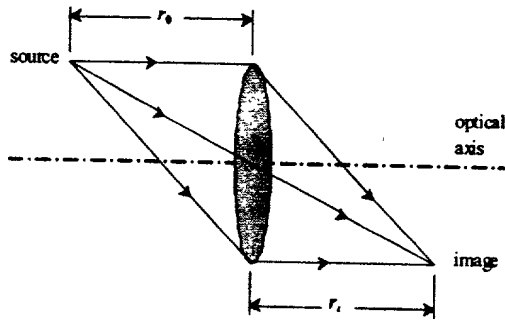


FIG. 1J1

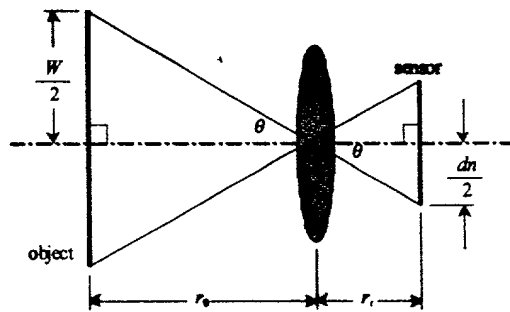


FIG. 1J2

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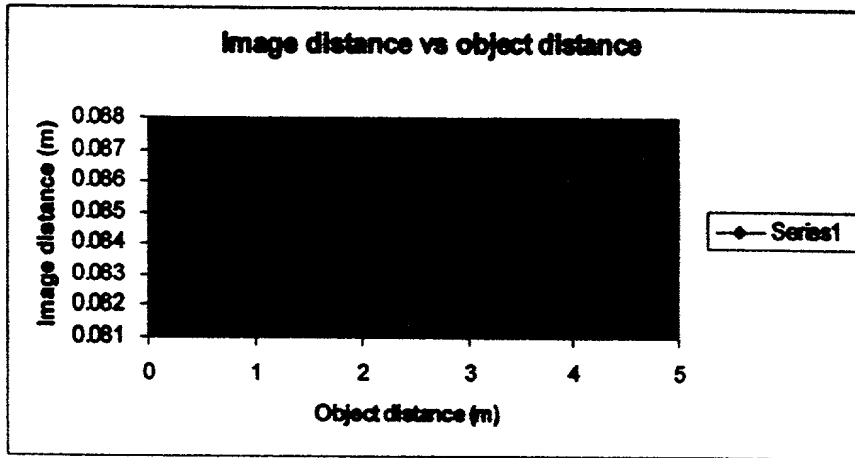


FIG. 1J3

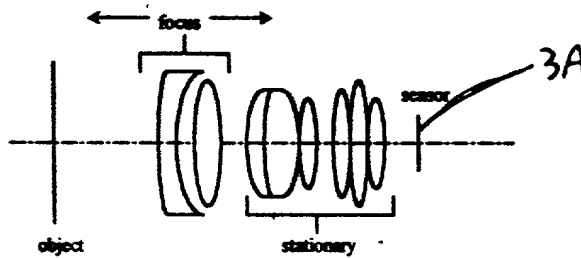


FIG. 1J4

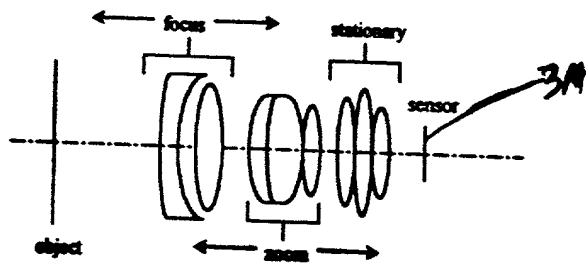
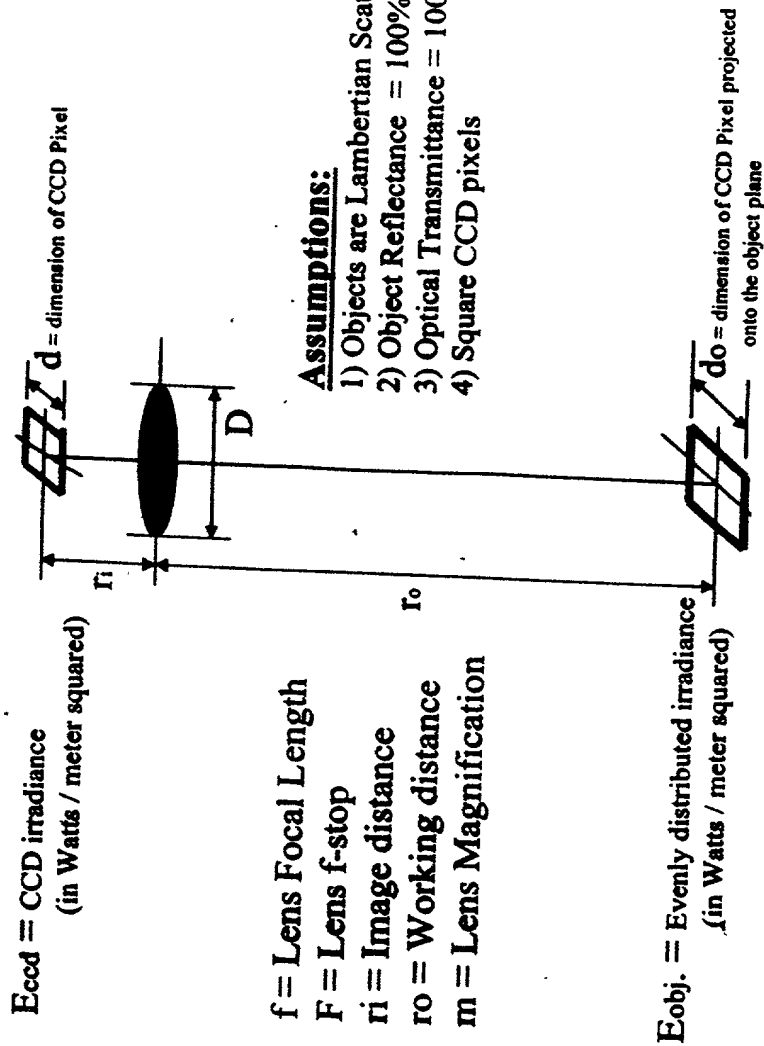


FIG. 1J5

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CCD-Based Scanner

FIG. 1J6

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Fixed focal length lens  
cases

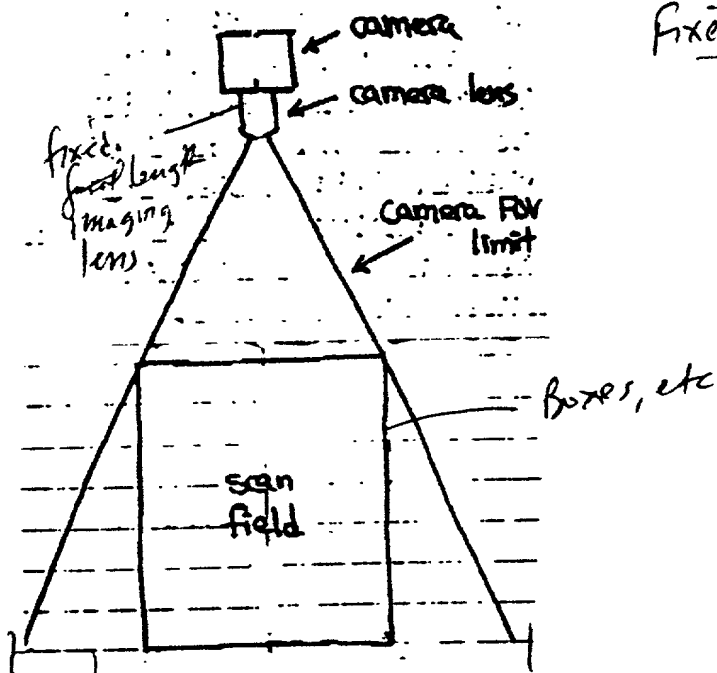
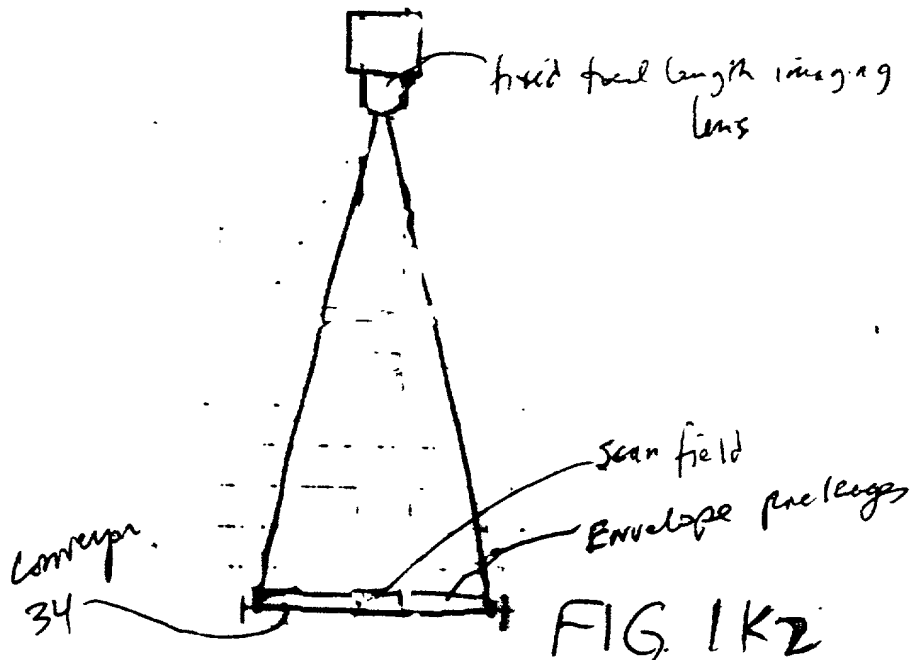


FIG 1K1  
conveyon 34



conveyon  
34

FIG 1K2

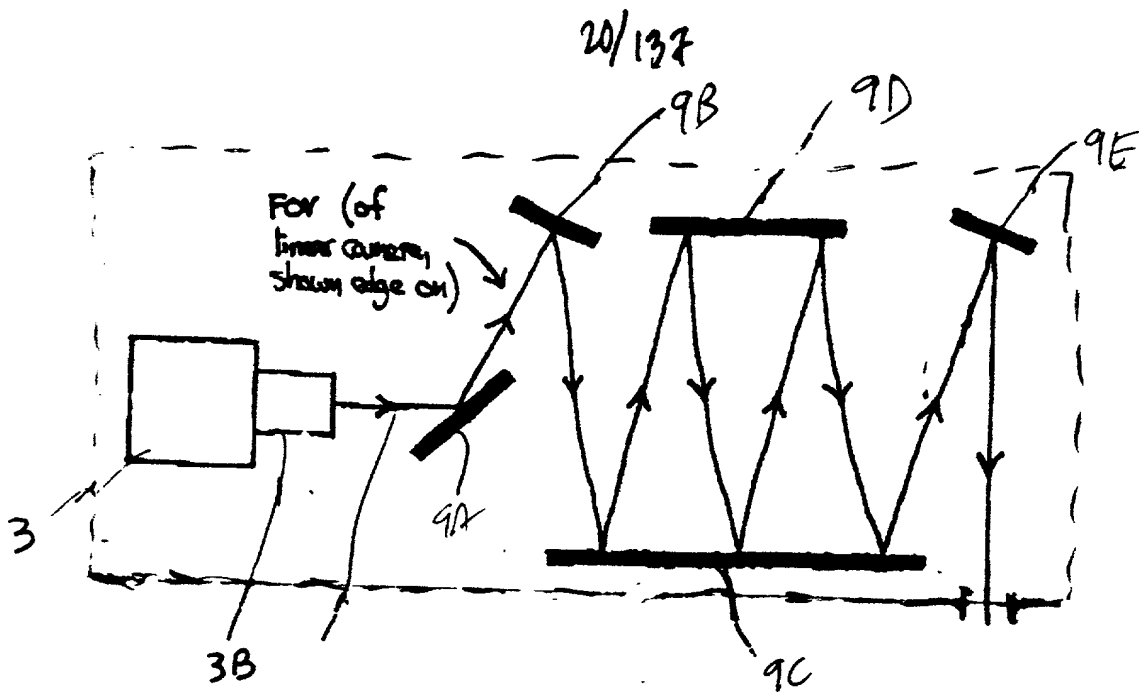


FIG. 1L1

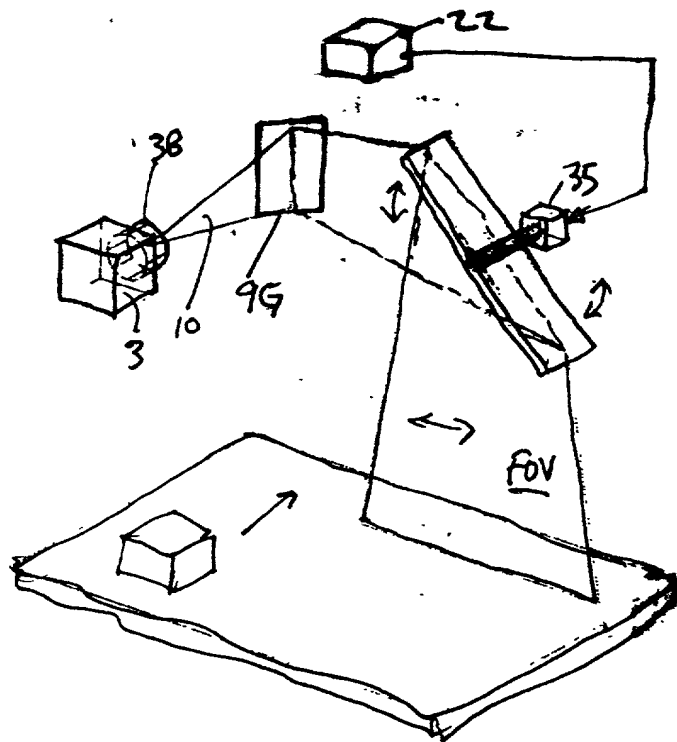


FIG. 1L2

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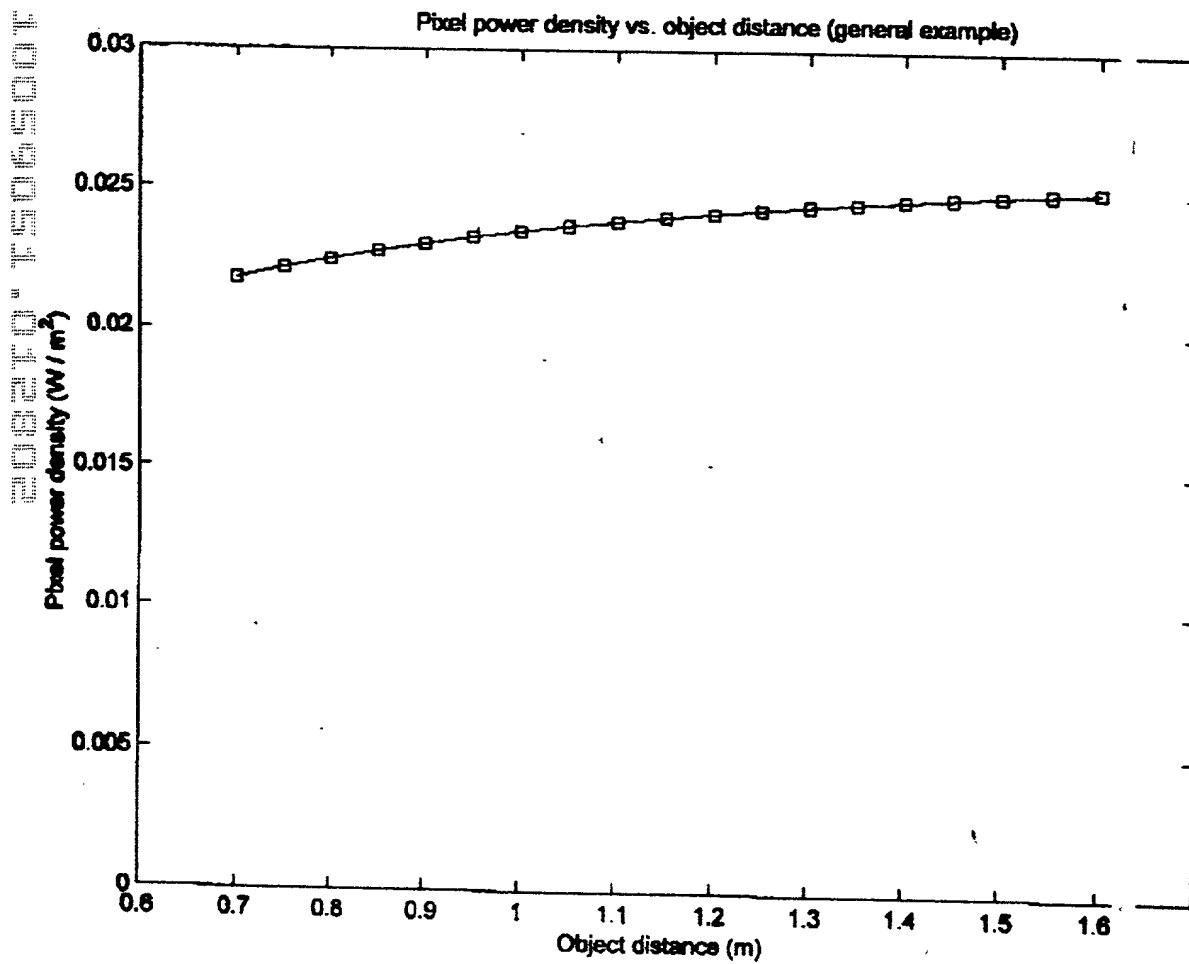


FIG-1M1

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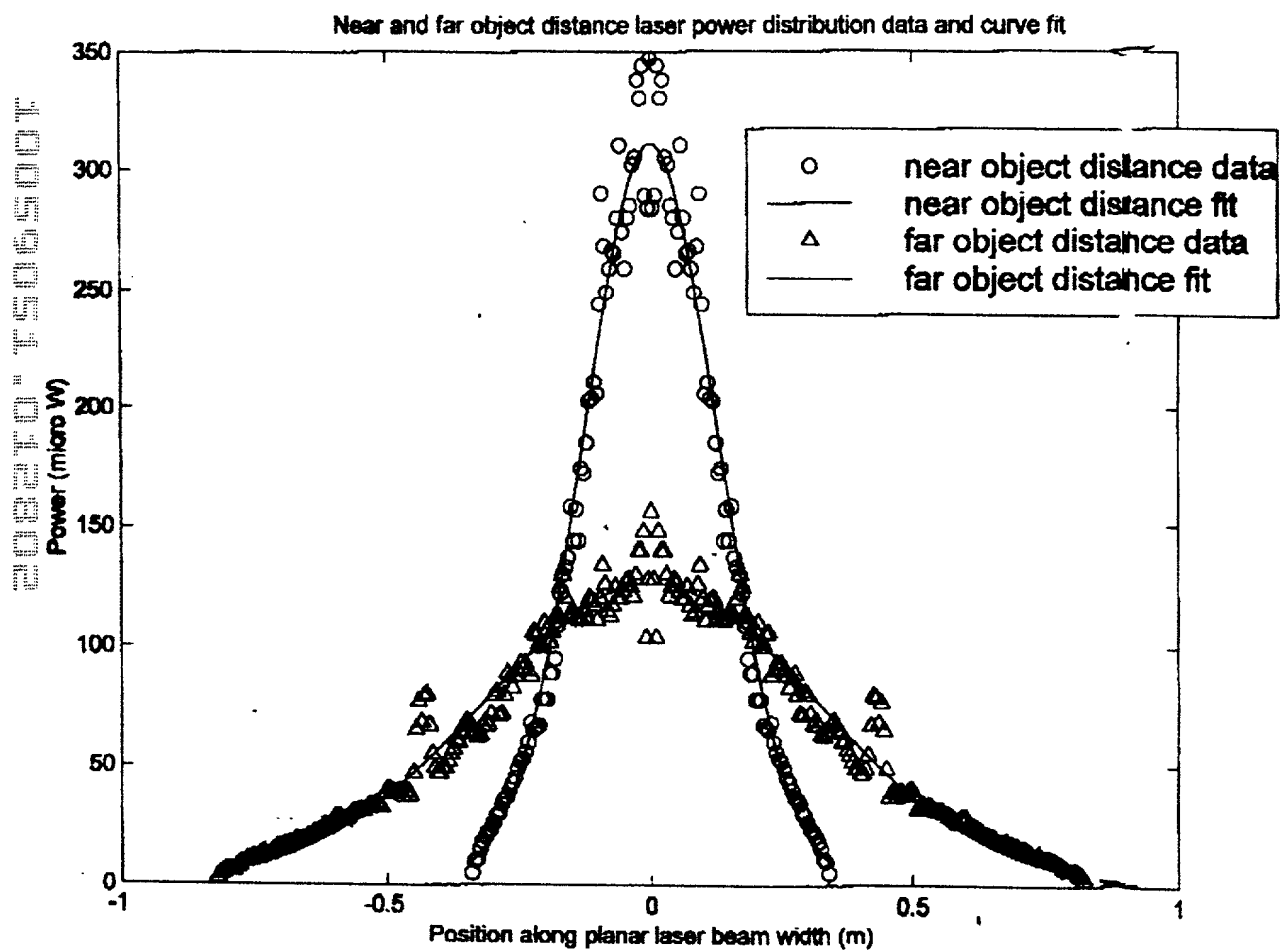


FIG. 1M2

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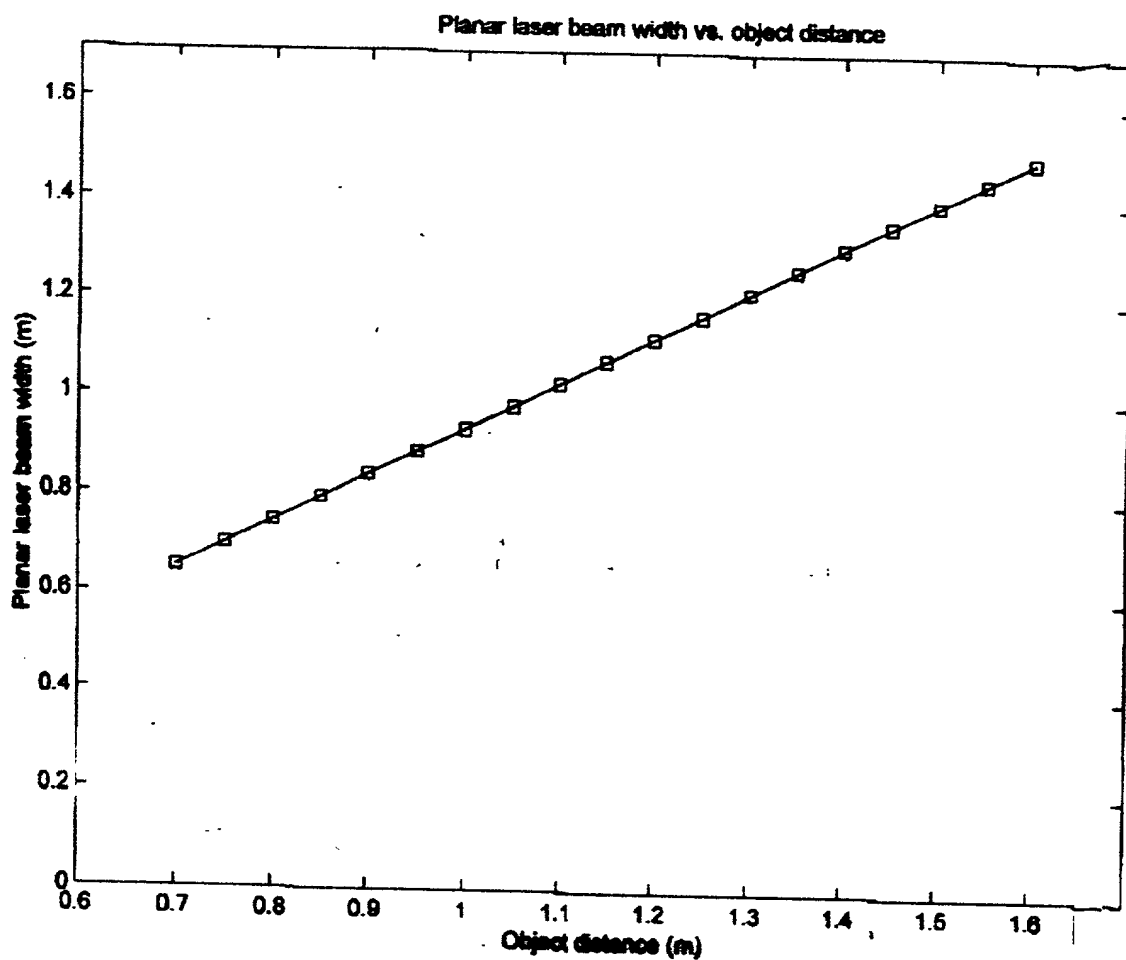
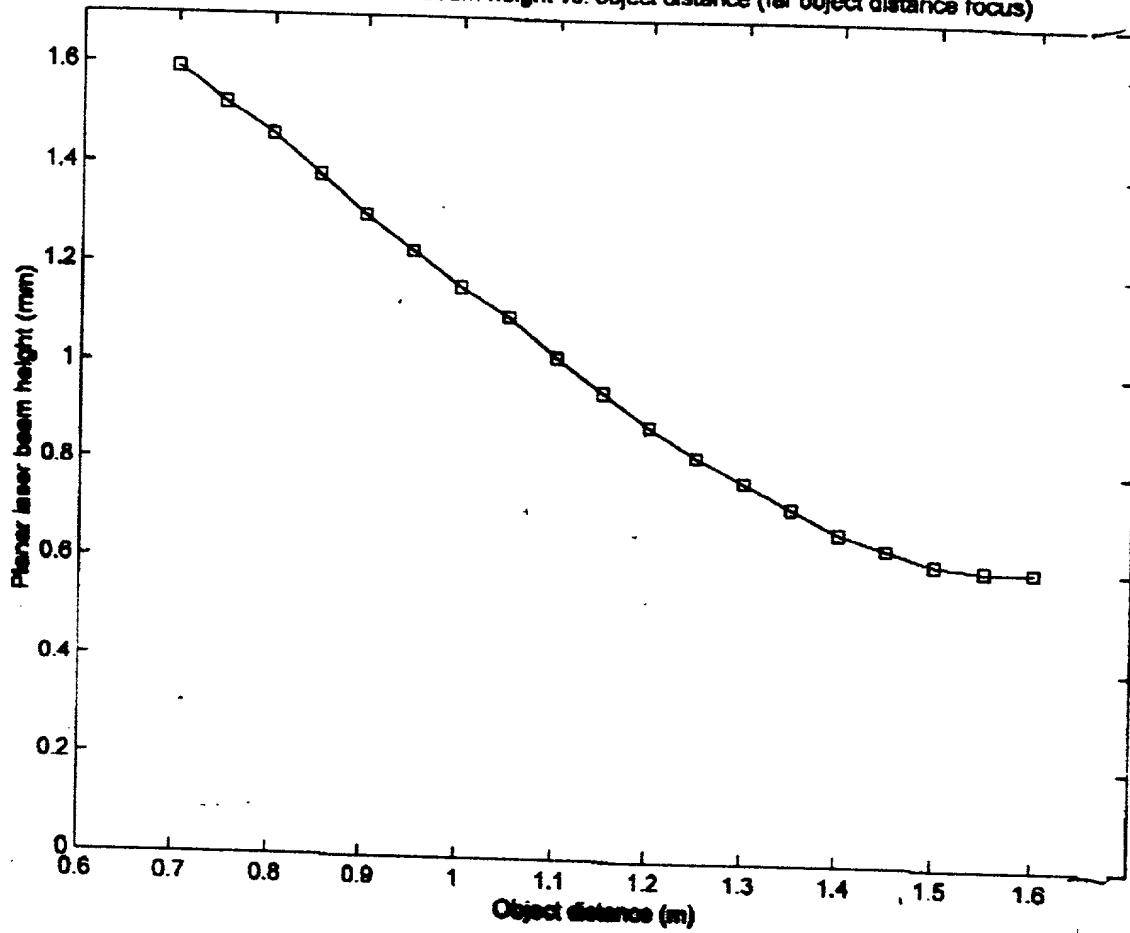


FIG. 1M3

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Figure 4: Planar laser beam height vs. object distance (far object distance focus)



FIG/M4



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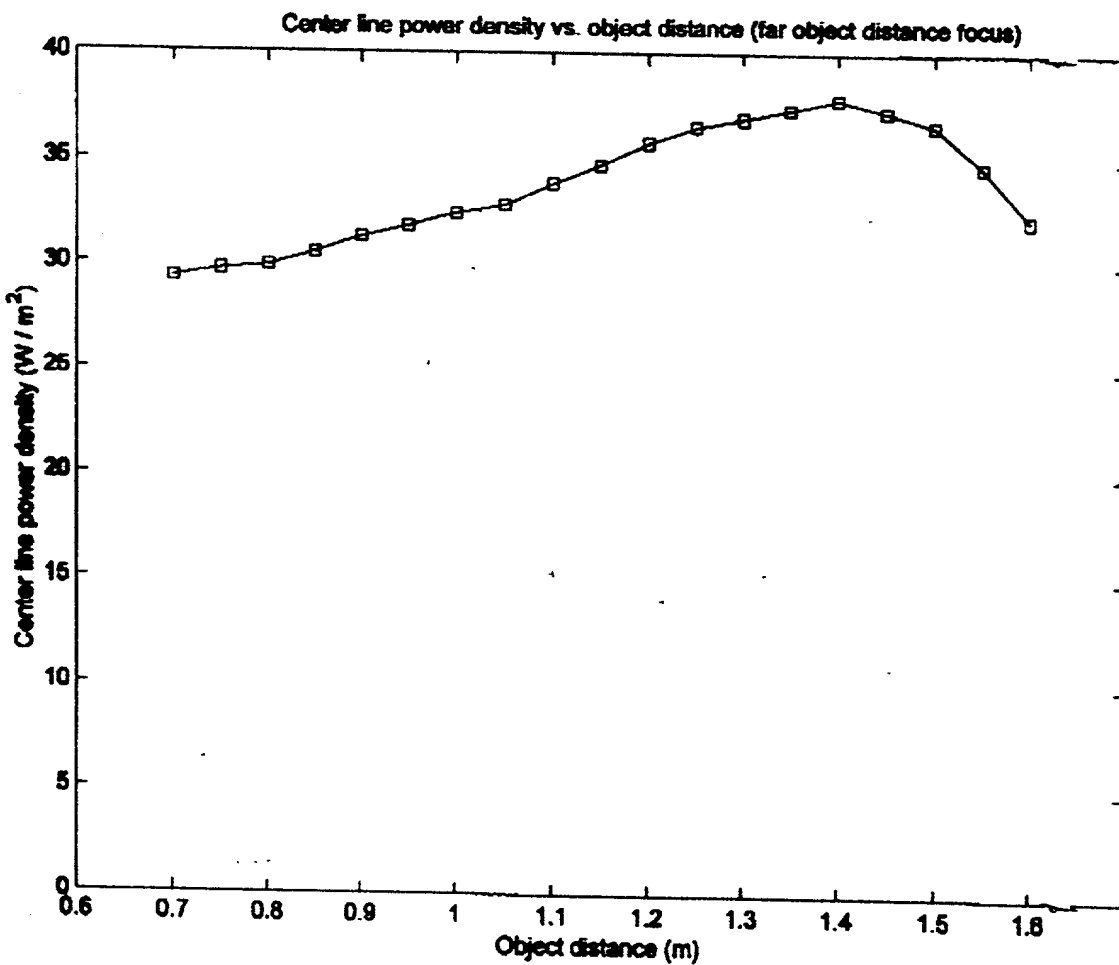


FIG. 1N

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Figure 6: Pixel power densities vs. object distance

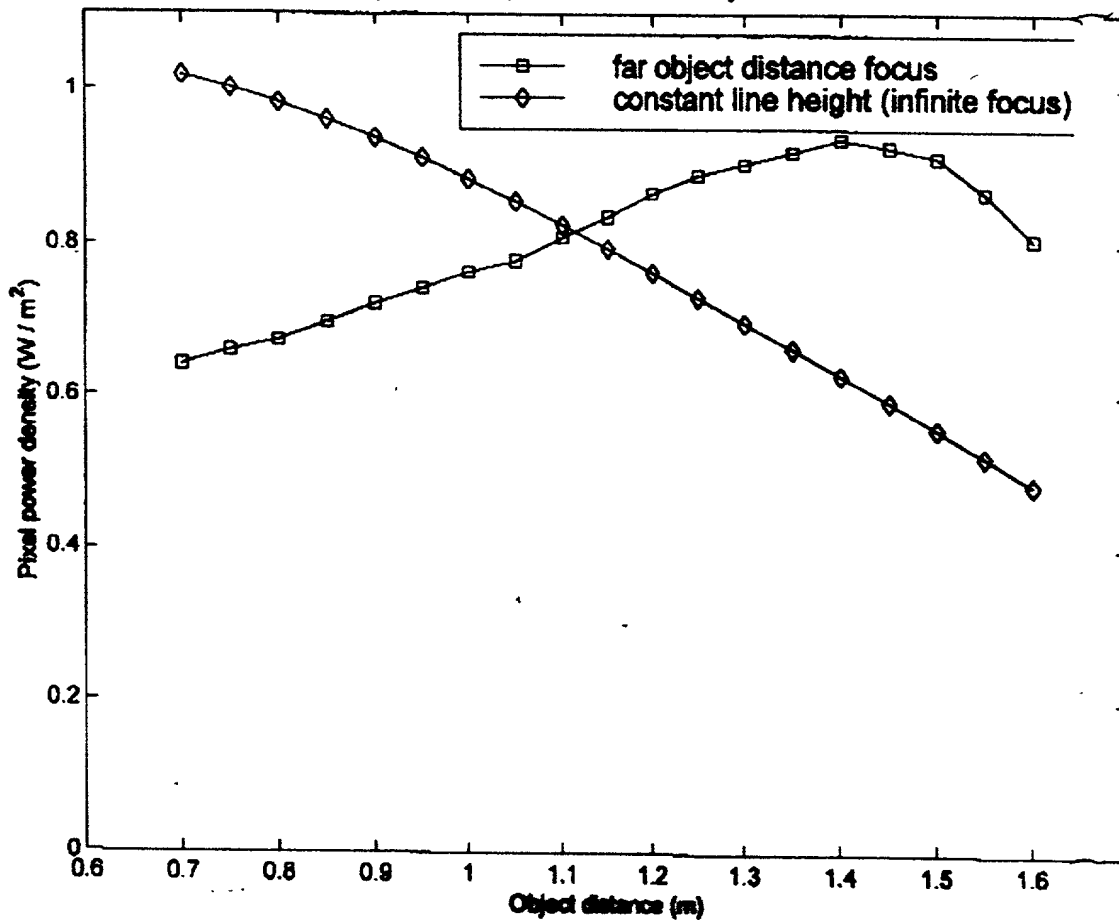
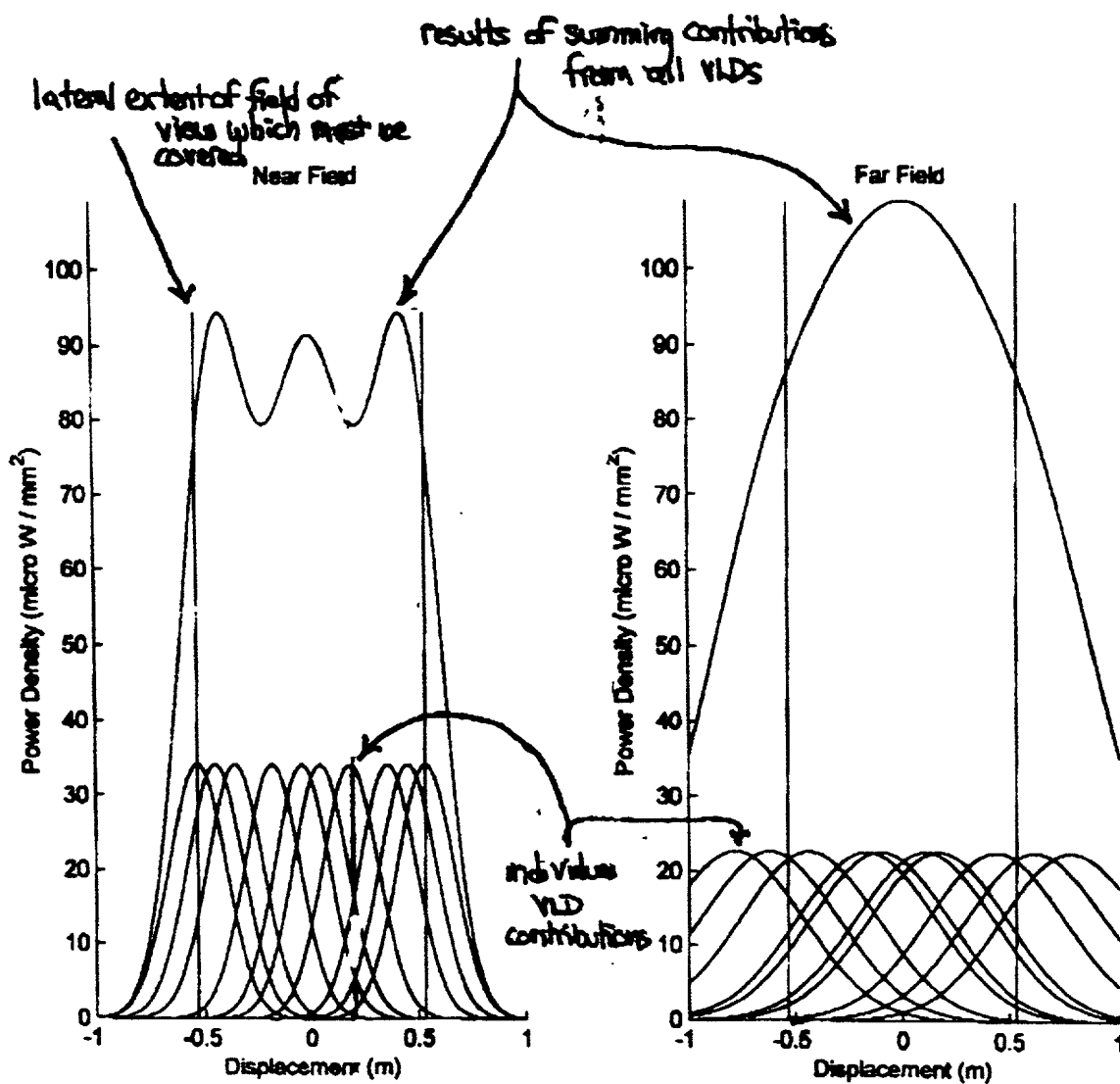


FIG. 10

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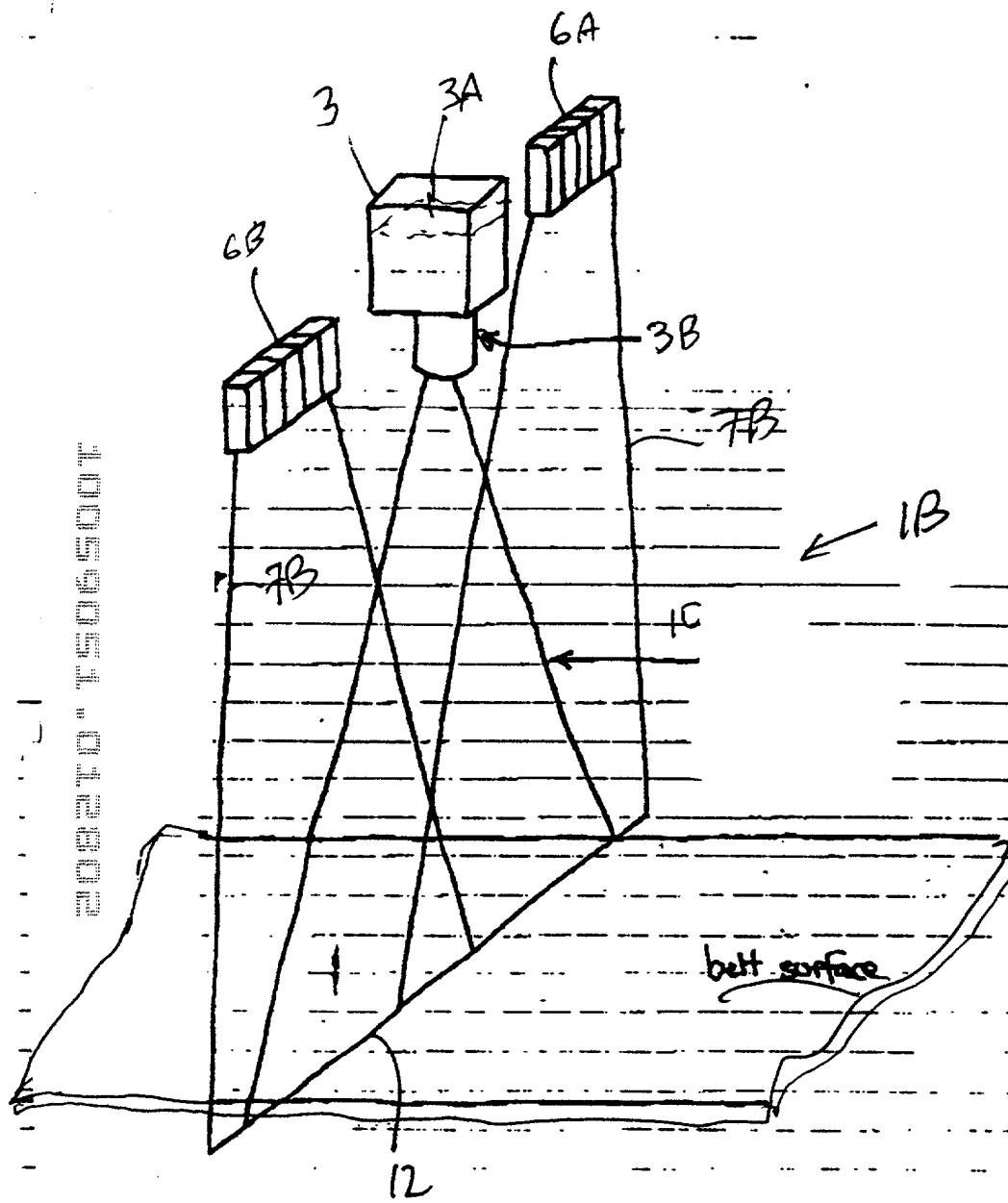


FIG. 101

fixed focal length / fixed distance

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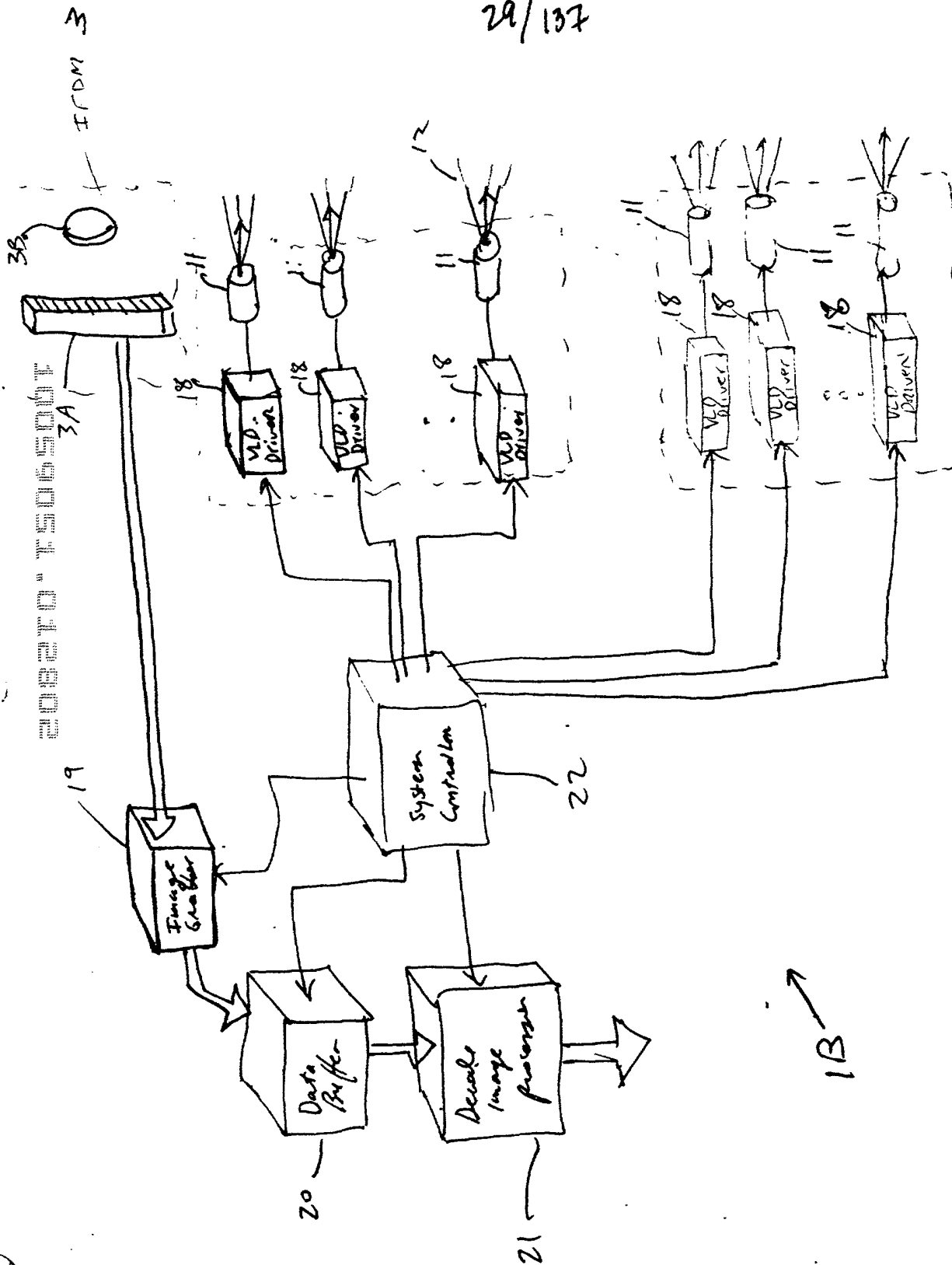
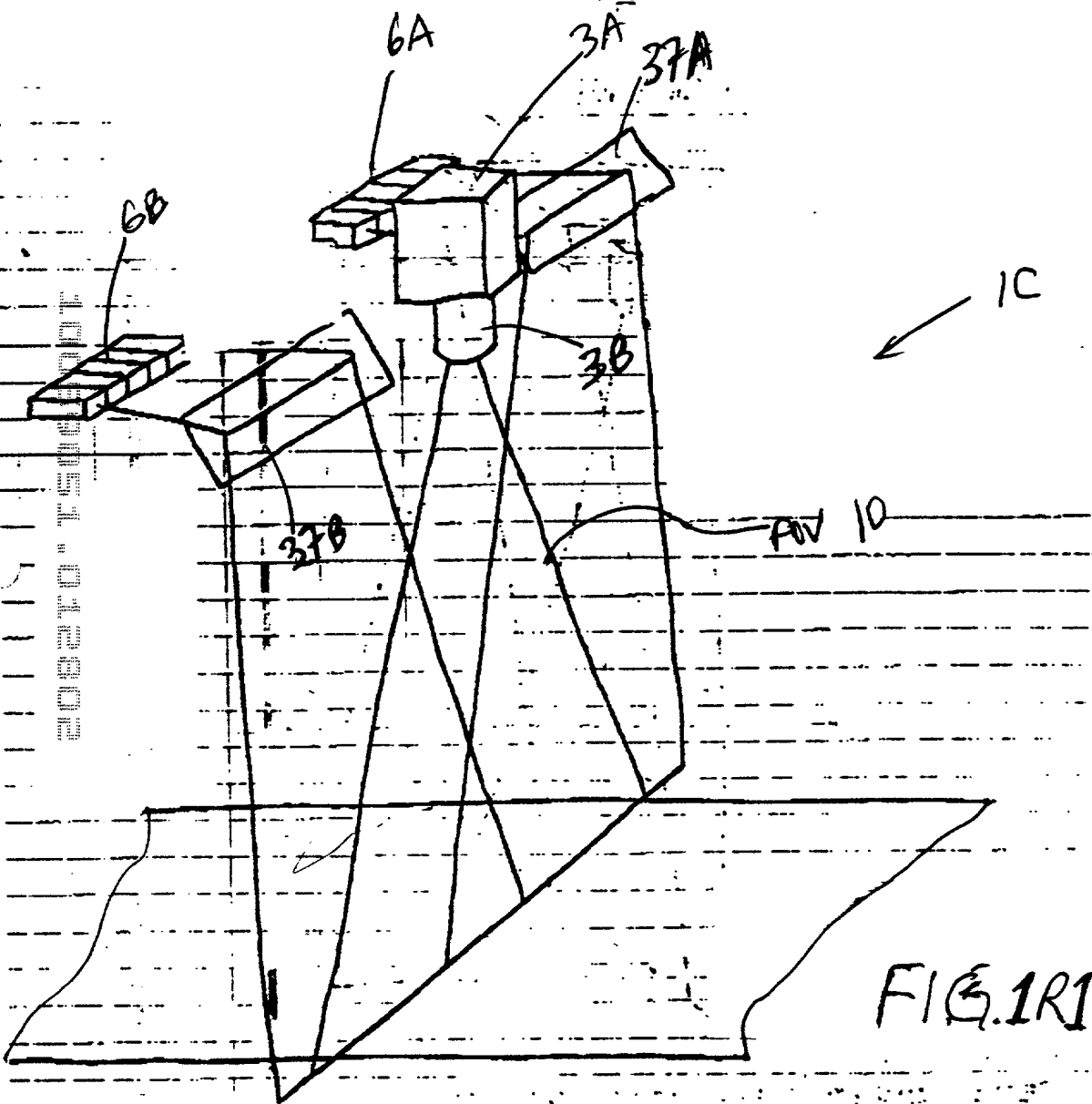


FIG. 10QZ

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| Table 1. Continued |      |
|--------------------|------|
| 1995               | 1996 |
| 1997               | 1998 |
| 1999               | 2000 |
| 2001               | 2002 |
| 2003               | 2004 |
| 2005               | 2006 |
| 2007               | 2008 |
| 2009               | 2010 |
| 2011               | 2012 |
| 2013               | 2014 |
| 2015               | 2016 |
| 2017               | 2018 |
| 2019               | 2020 |
| 2021               | 2022 |
| 2023               | 2024 |
| 2025               | 2026 |
| 2027               | 2028 |
| 2029               | 2030 |
| 2031               | 2032 |
| 2033               | 2034 |
| 2035               | 2036 |
| 2037               | 2038 |
| 2039               | 2040 |
| 2041               | 2042 |
| 2043               | 2044 |
| 2045               | 2046 |
| 2047               | 2048 |
| 2049               | 2050 |
| 2051               | 2052 |
| 2053               | 2054 |
| 2055               | 2056 |
| 2057               | 2058 |
| 2059               | 2060 |
| 2061               | 2062 |
| 2063               | 2064 |
| 2065               | 2066 |
| 2067               | 2068 |
| 2069               | 2070 |
| 2071               | 2072 |
| 2073               | 2074 |
| 2075               | 2076 |
| 2077               | 2078 |
| 2079               | 2080 |
| 2081               | 2082 |
| 2083               | 2084 |
| 2085               | 2086 |
| 2087               | 2088 |
| 2089               | 2090 |
| 2091               | 2092 |
| 2093               | 2094 |
| 2095               | 2096 |
| 2097               | 2098 |
| 2099               | 2100 |
| 2101               | 2102 |
| 2103               | 2104 |
| 2105               | 2106 |
| 2107               | 2108 |
| 2109               | 2110 |
| 2111               | 2112 |
| 2113               | 2114 |
| 2115               | 2116 |
| 2117               | 2118 |
| 2119               | 2120 |
| 2121               | 2122 |
| 2123               | 2124 |
| 2125               | 2126 |
| 2127               | 2128 |
| 2129               | 2130 |
| 2131               | 2132 |
| 2133               | 2134 |
| 2135               | 2136 |
| 2137               | 2138 |
| 2139               | 2140 |
| 2141               | 2142 |
| 2143               | 2144 |
| 2145               | 2146 |
| 2147               | 2148 |
| 2149               | 2150 |
| 2151               | 2152 |
| 2153               | 2154 |
| 2155               | 2156 |
| 2157               | 2158 |
| 2159               | 2160 |
| 2161               | 2162 |
| 2163               | 2164 |
| 2165               | 2166 |
| 2167               | 2168 |
| 2169               | 2170 |
| 2171               | 2172 |
| 2173               | 2174 |
| 2175               | 2176 |
| 2177               | 2178 |
| 2179               | 2180 |
| 2181               | 2182 |
| 2183               | 2184 |
| 2185               | 2186 |
| 2187               | 2188 |
| 2189               | 2190 |
| 2191               | 2192 |
| 2193               | 2194 |
| 2195               | 2196 |
| 2197               | 2198 |
| 2199               | 2200 |
| 2201               | 2202 |
| 2203               | 2204 |
| 2205               | 2206 |
| 2207               | 2208 |
| 2209               | 2210 |
| 2211               | 2212 |
| 2213               | 2214 |
| 2215               | 2216 |
| 2217               | 2218 |
| 2219               | 2220 |
| 2221               | 2222 |
| 2223               | 2224 |
| 2225               | 2226 |
| 2227               | 2228 |
| 2229               | 2230 |
| 2231               | 2232 |
| 2233               | 2234 |
| 2235               | 2236 |
| 2237               | 2238 |
| 2239               | 2240 |
| 2241               | 2242 |
| 2243               | 2244 |
| 2245               | 2246 |
| 2247               | 2248 |
| 2249               | 2250 |
| 2251               | 2252 |
| 2253               | 2254 |
| 2255               | 2256 |
| 2257               | 2258 |
| 2259               | 2260 |
| 2261               | 2262 |
| 2263               | 2264 |
| 2265               | 2266 |
| 2267               | 2268 |
| 2269               | 2270 |
| 2271               | 2272 |
| 2273               | 2274 |
| 2275               | 2276 |
| 2277               | 2278 |
| 2279               | 2280 |
| 2281               | 2282 |
| 2283               | 2284 |
| 2285               | 2286 |
| 2287               | 2288 |
| 2289               | 2290 |
| 2291               | 2292 |
| 2293               | 2294 |
| 2295               |      |

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FIG. 1R2

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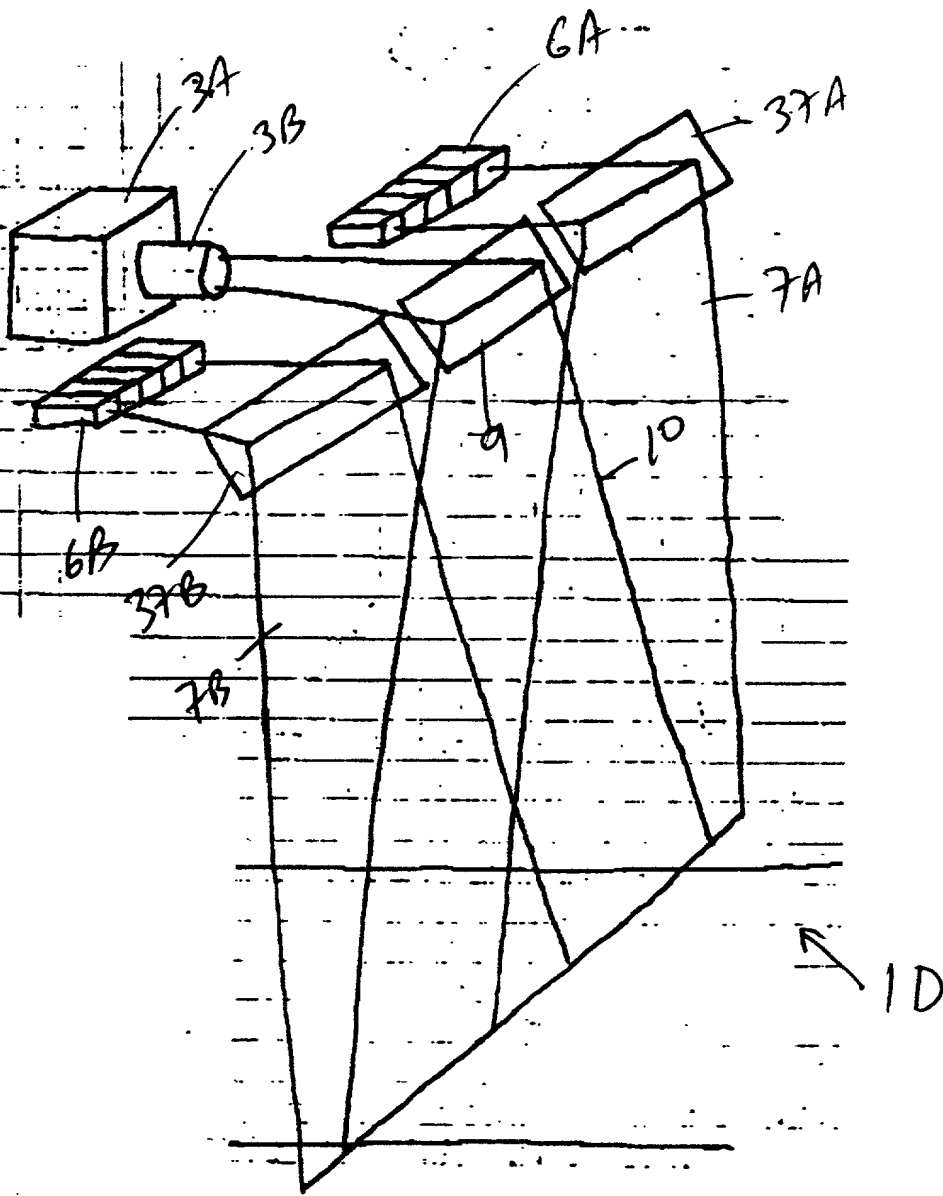
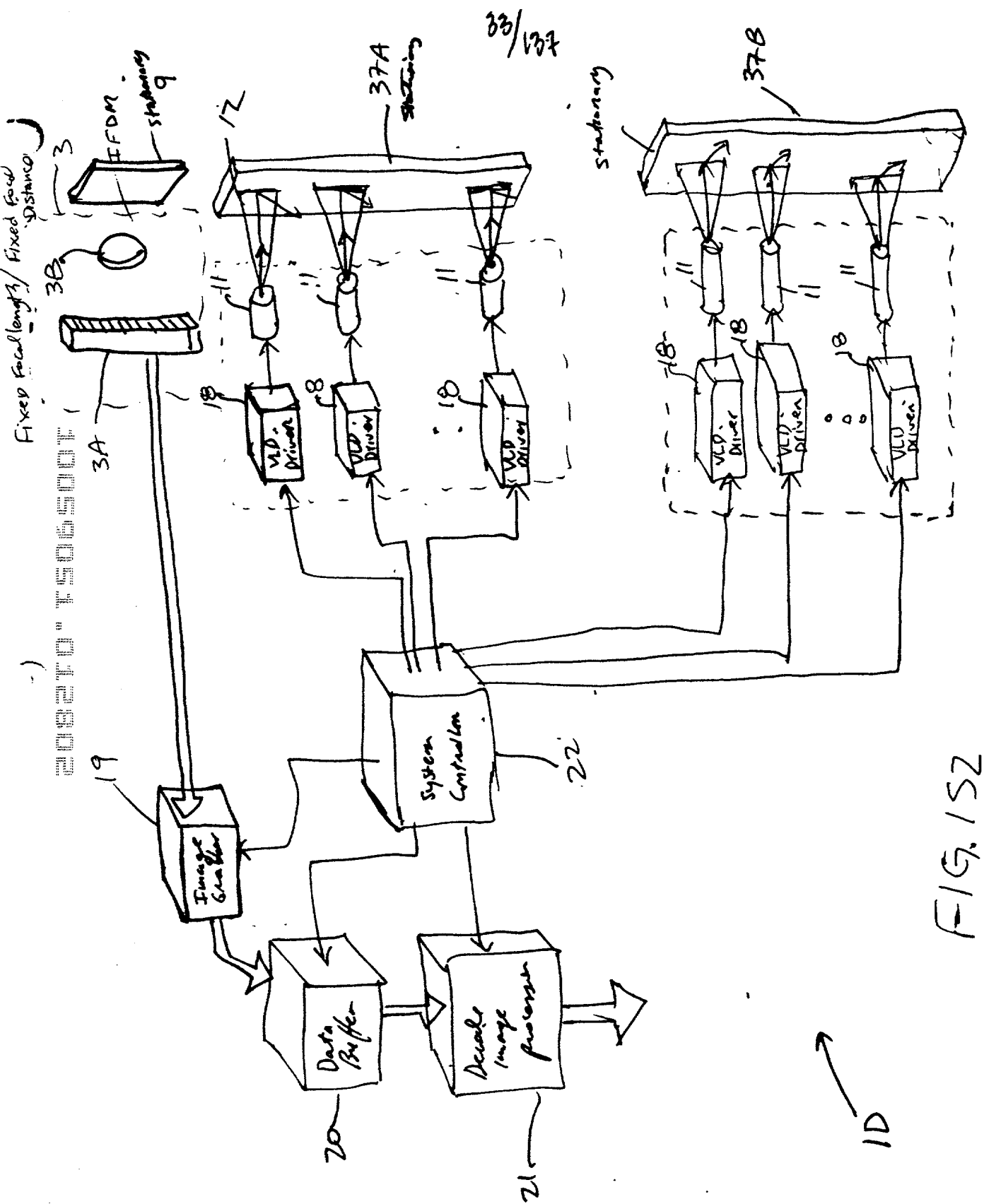


FIG. 1S1





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208270" F506500T

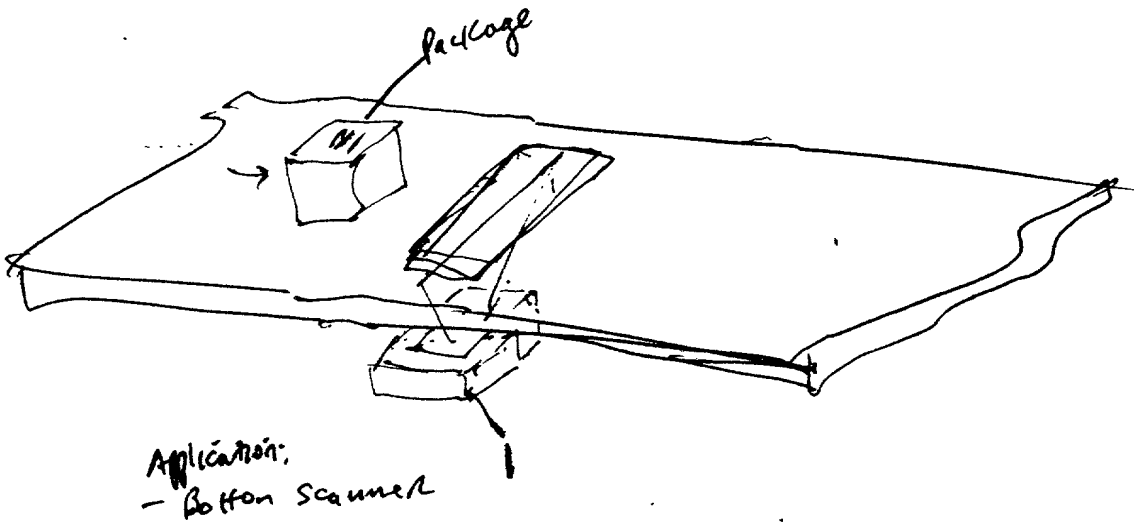


FIG 1T

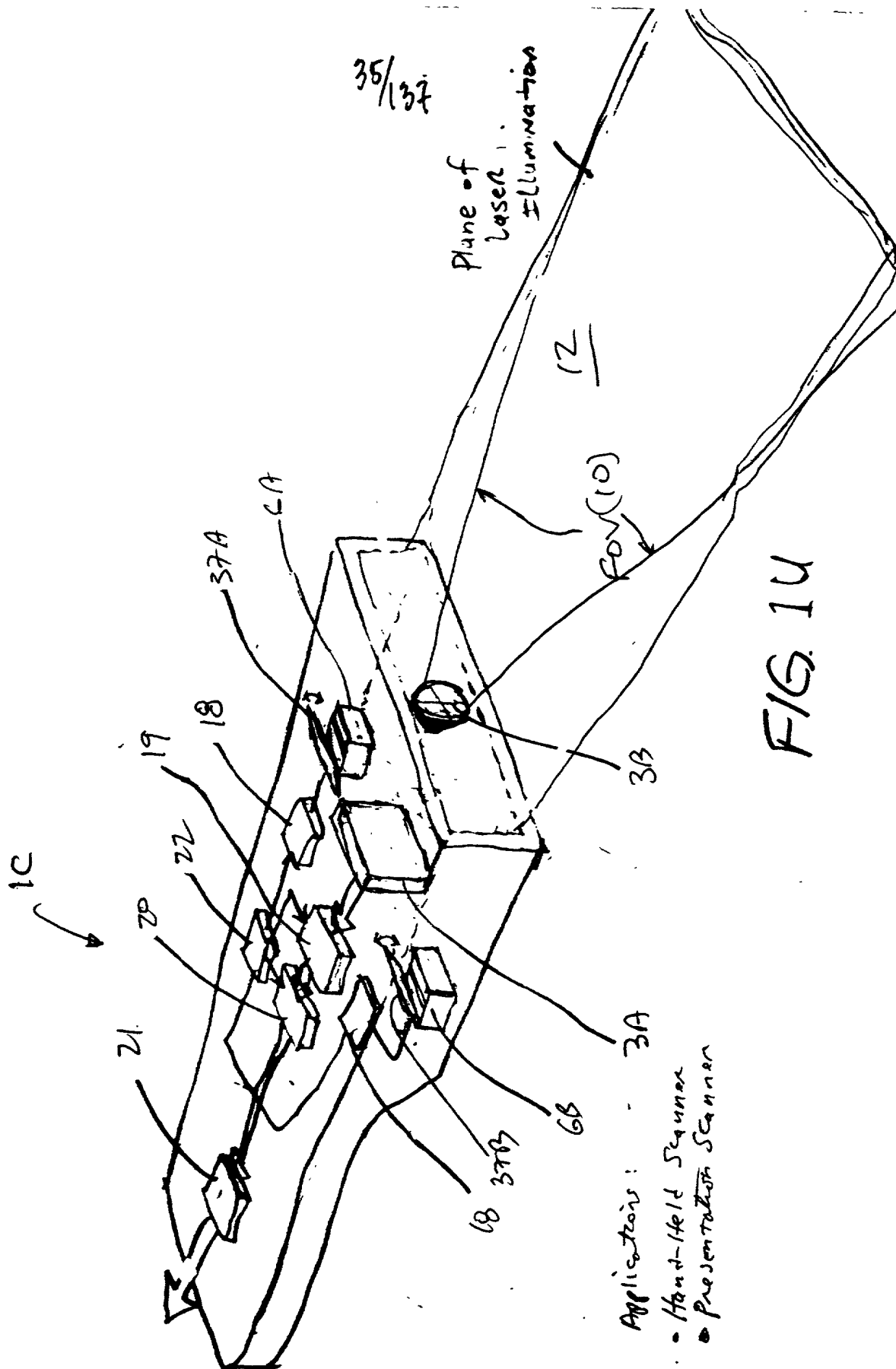


FIG. 14

09



FIG. 1VI

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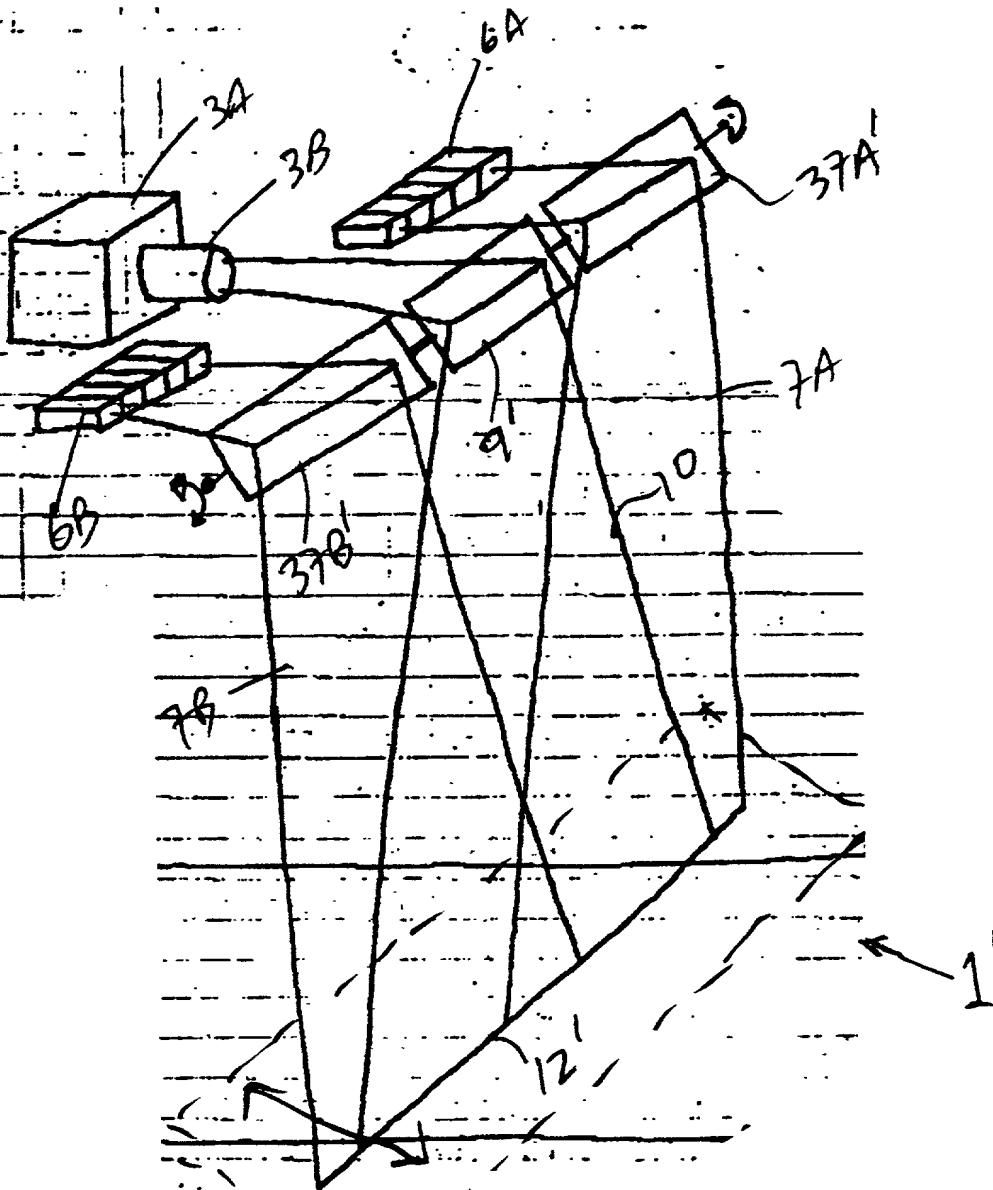
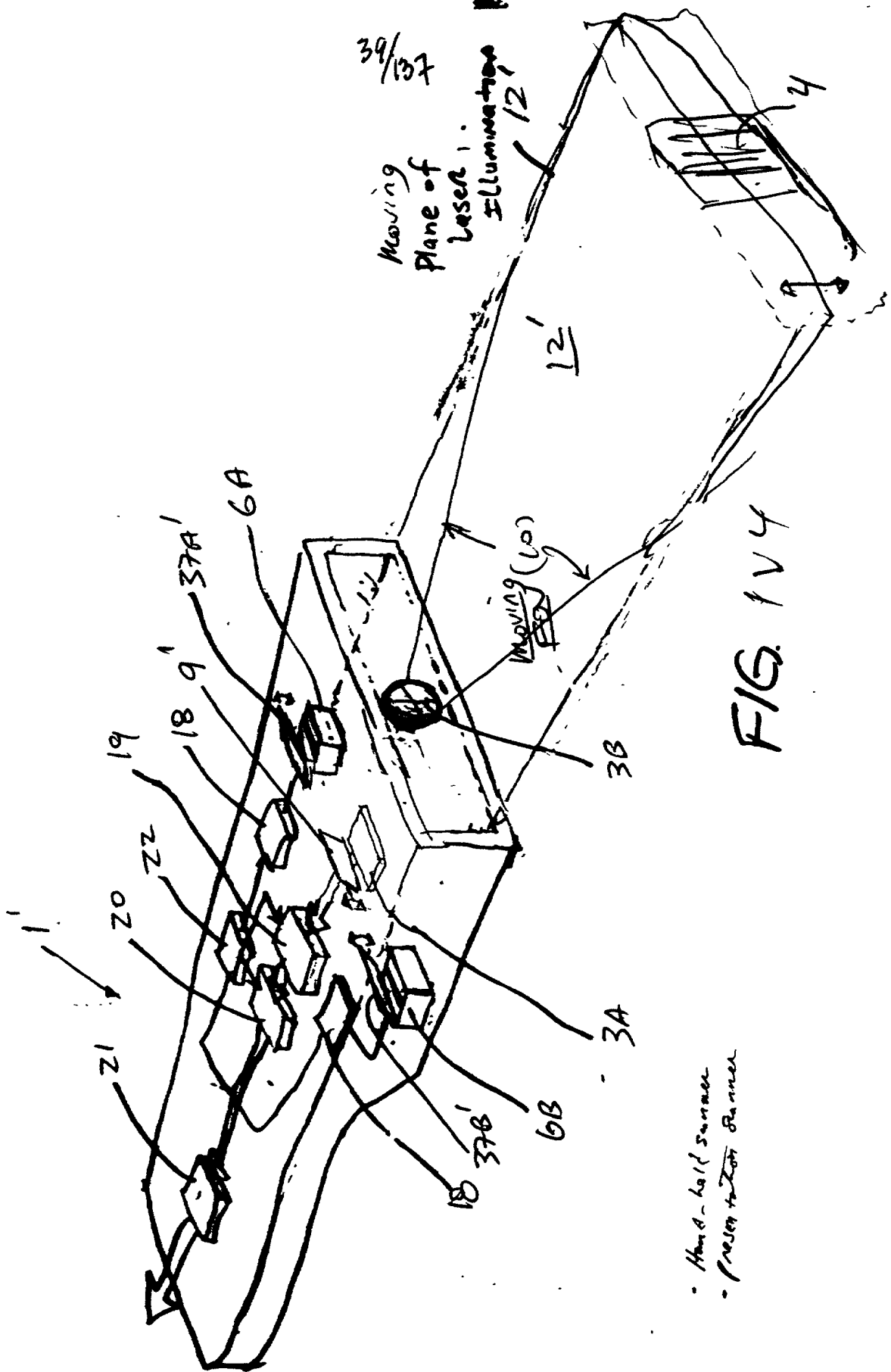


FIG. IV2

2-D  
region  
of  
space

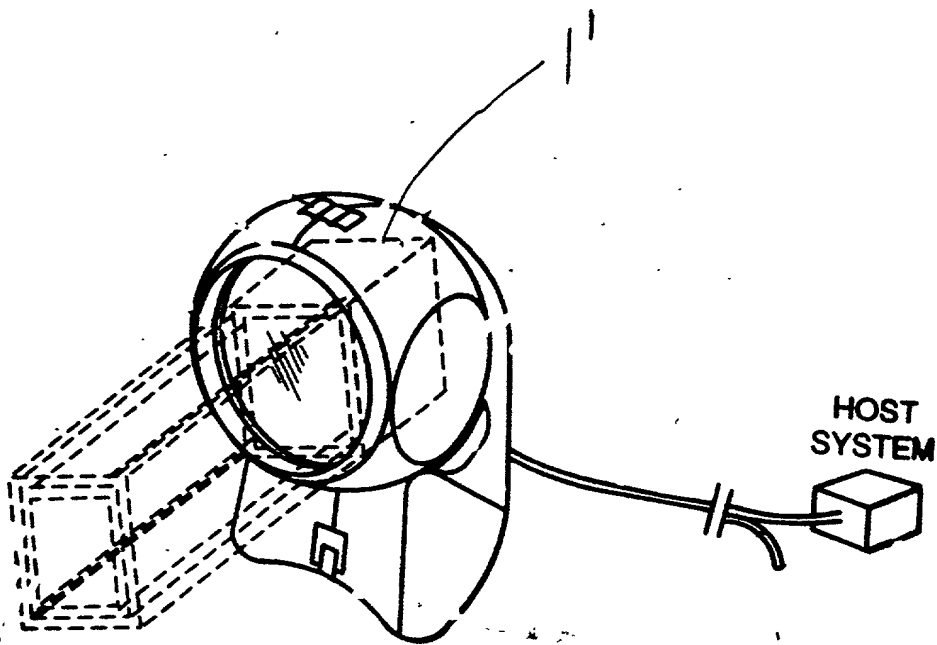




- Hand-held banner  
- Presentation banner

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208210" T506500T



(Presentation type scanner)

FIG. 1 V5



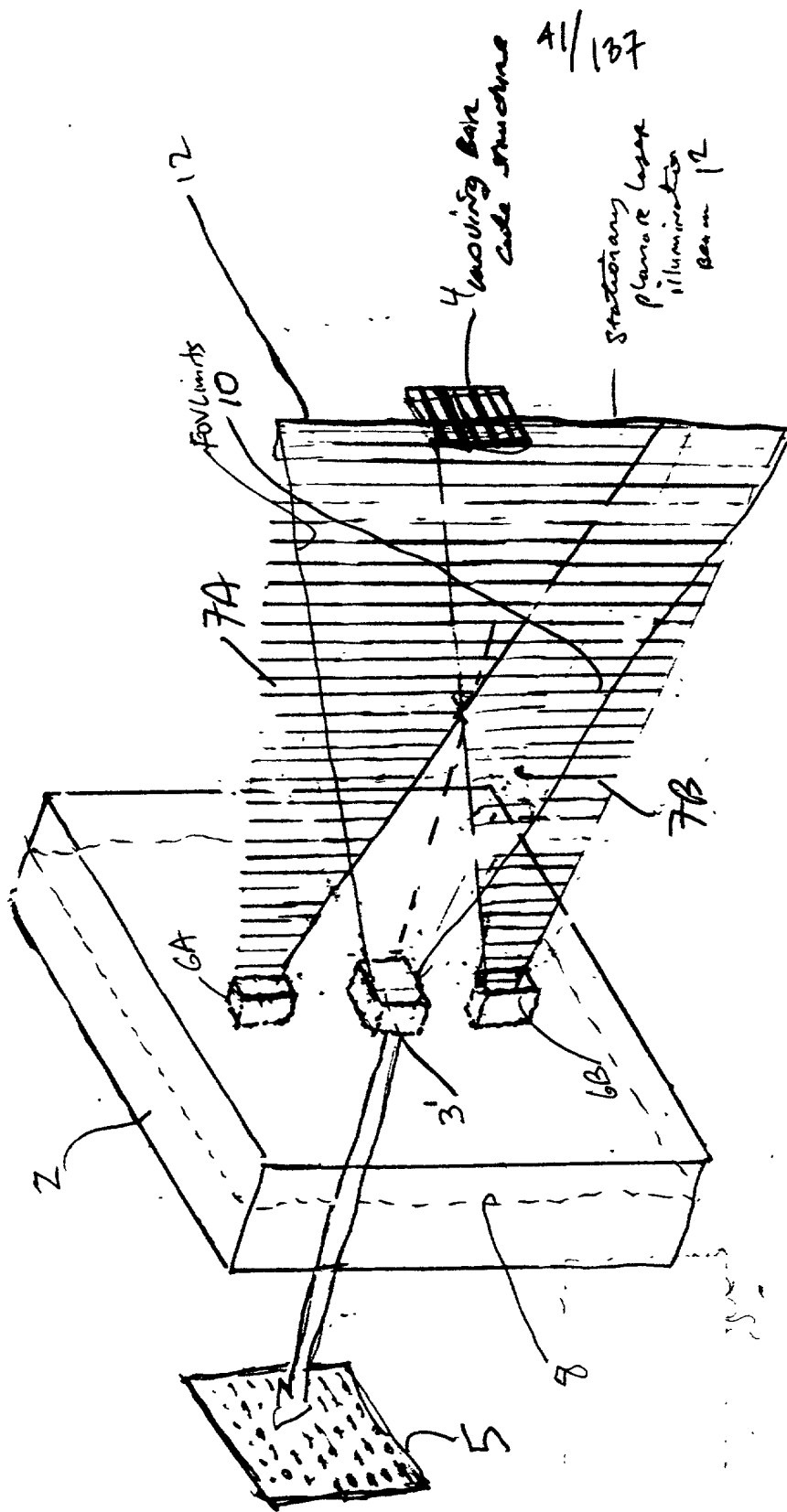


FIG. 2A

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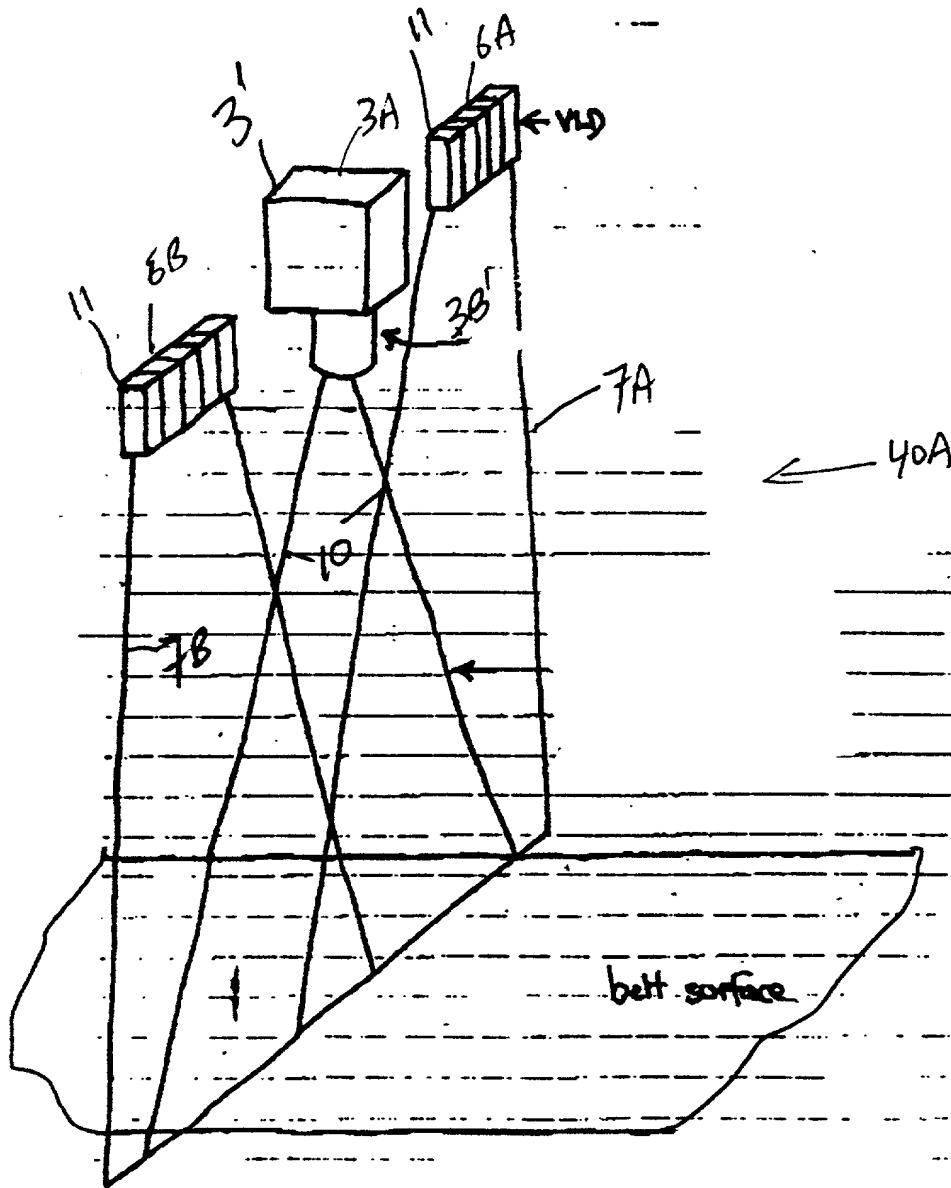


FIG. 2 B1

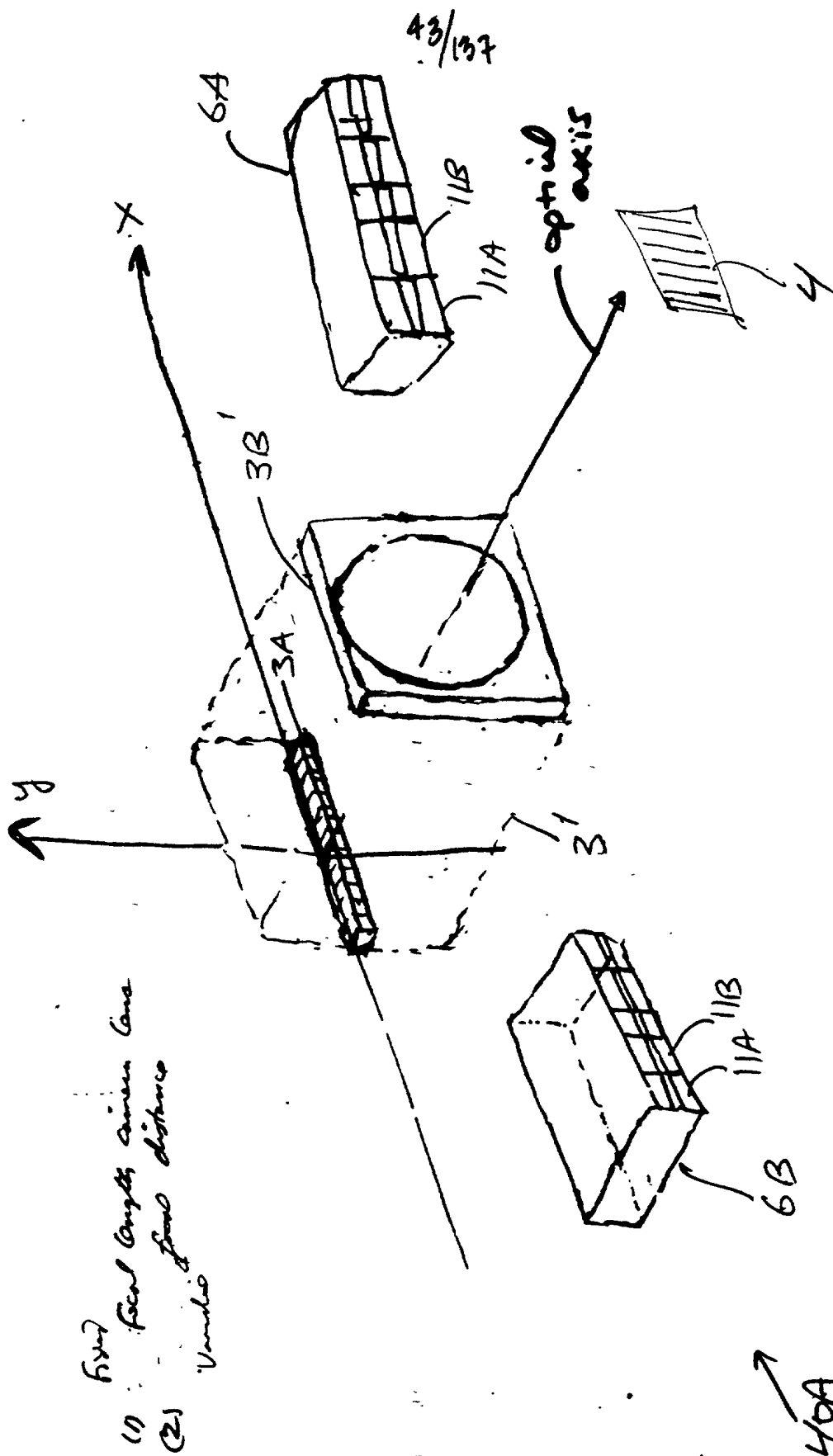


FIG. 2B2

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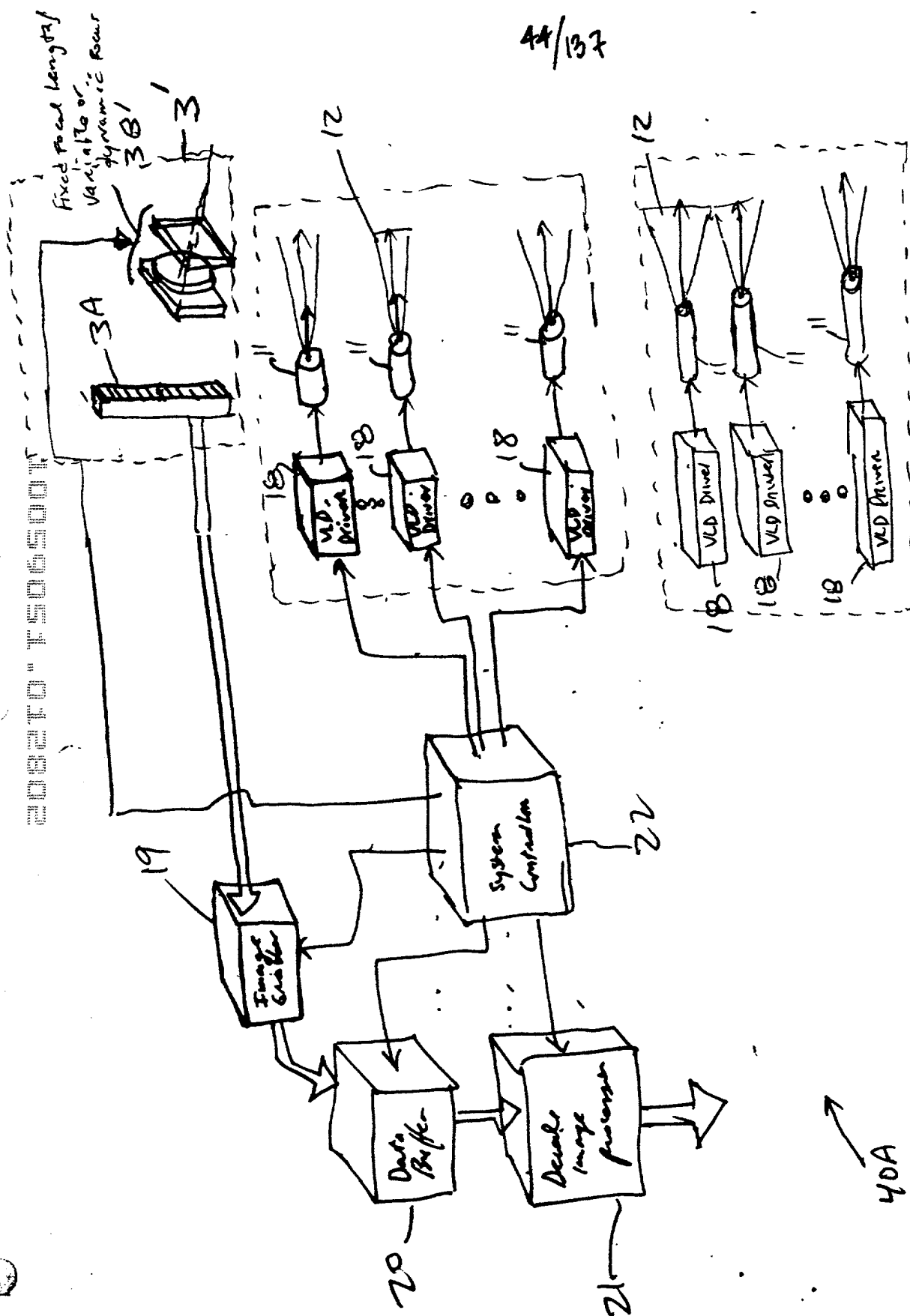


FIG. 2C1

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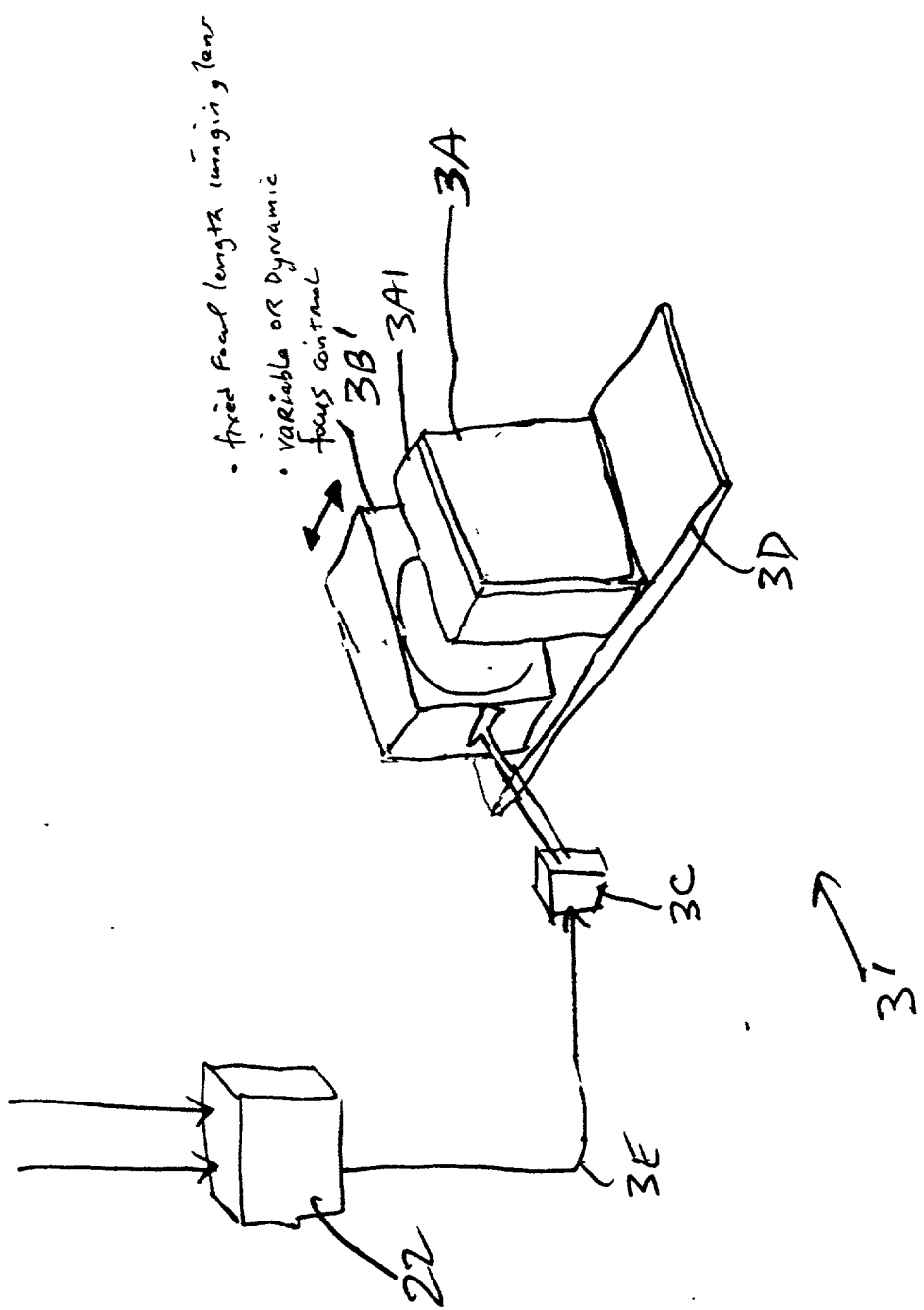


FIG. 2C2

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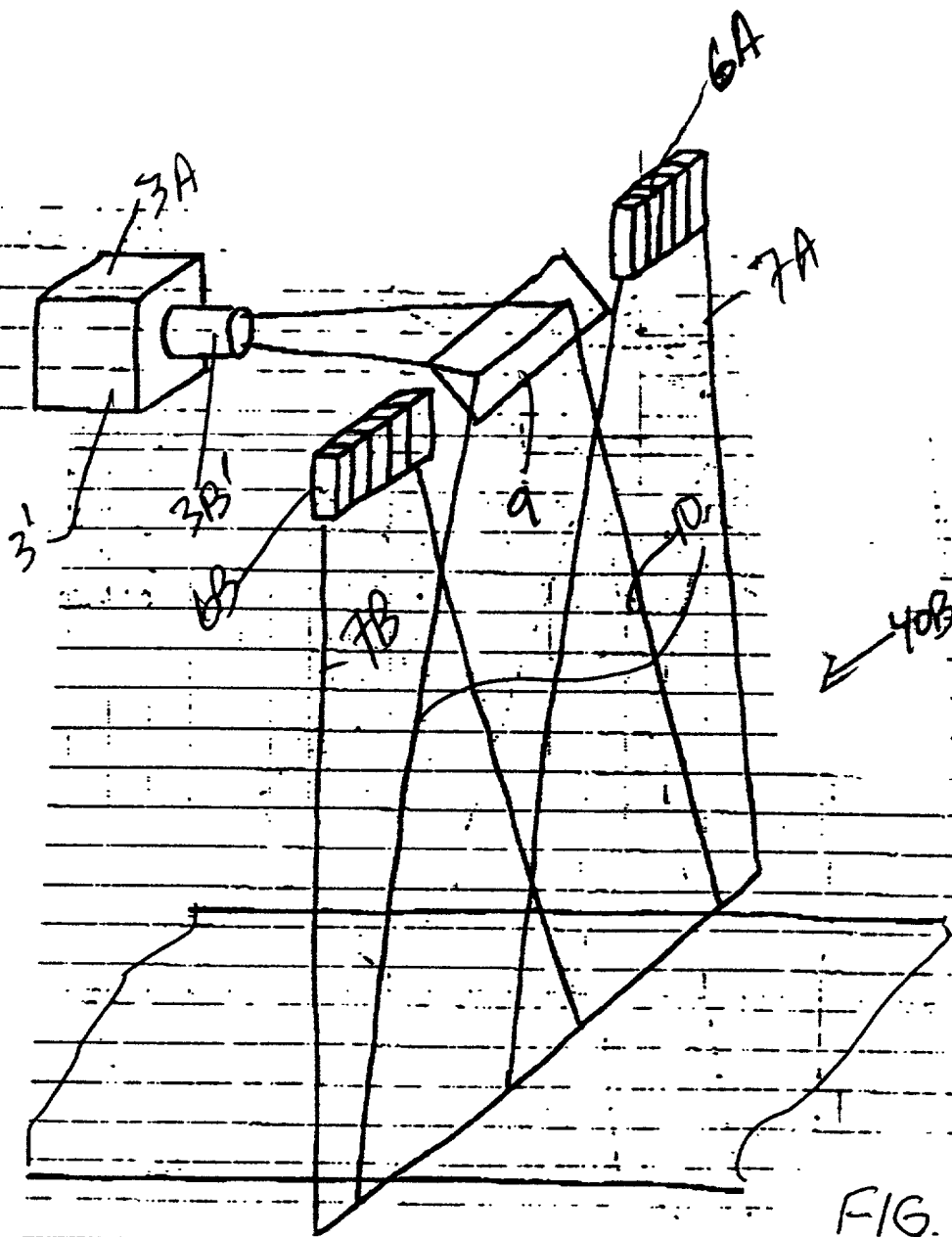


FIG. 2D1

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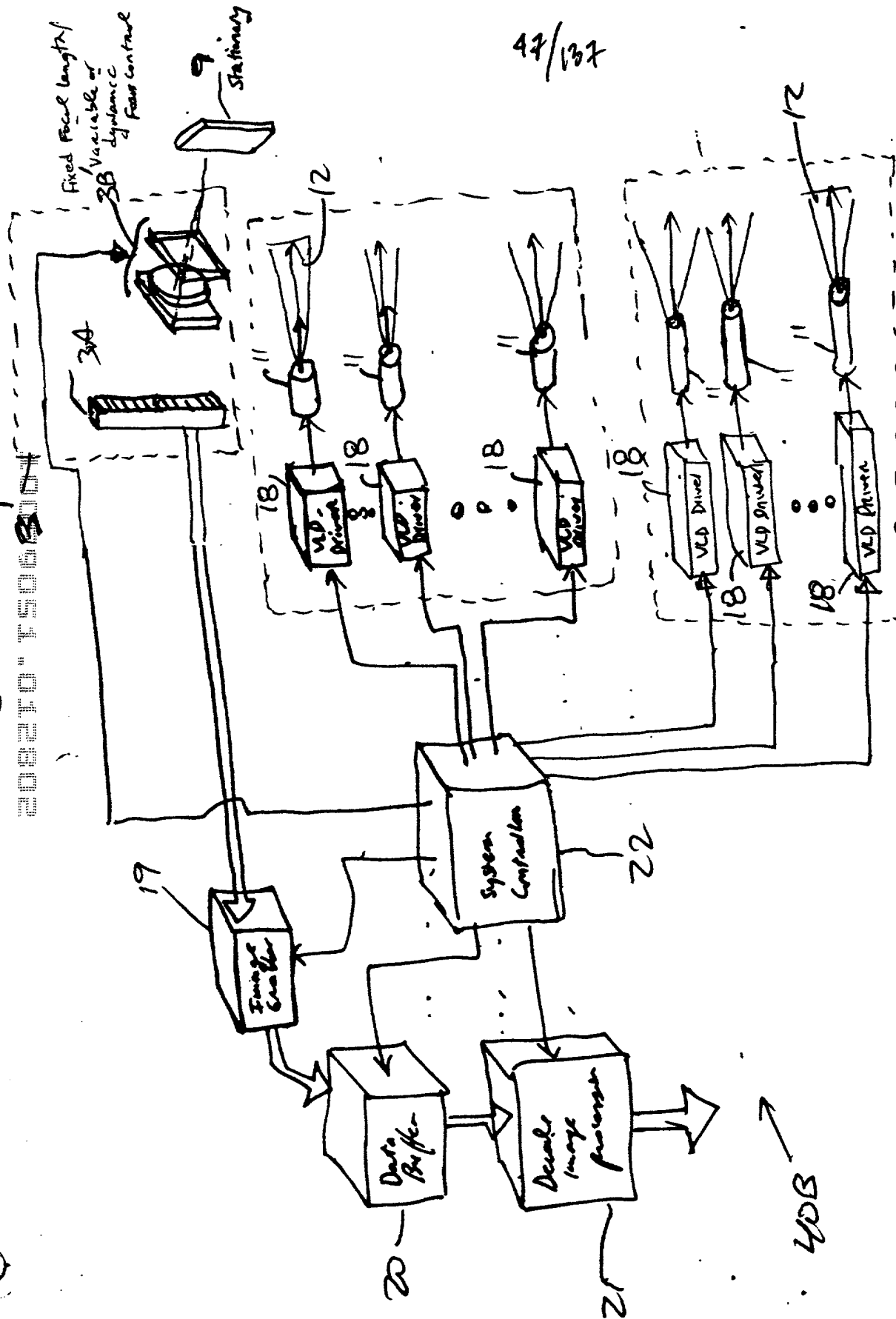


FIG. 2D2

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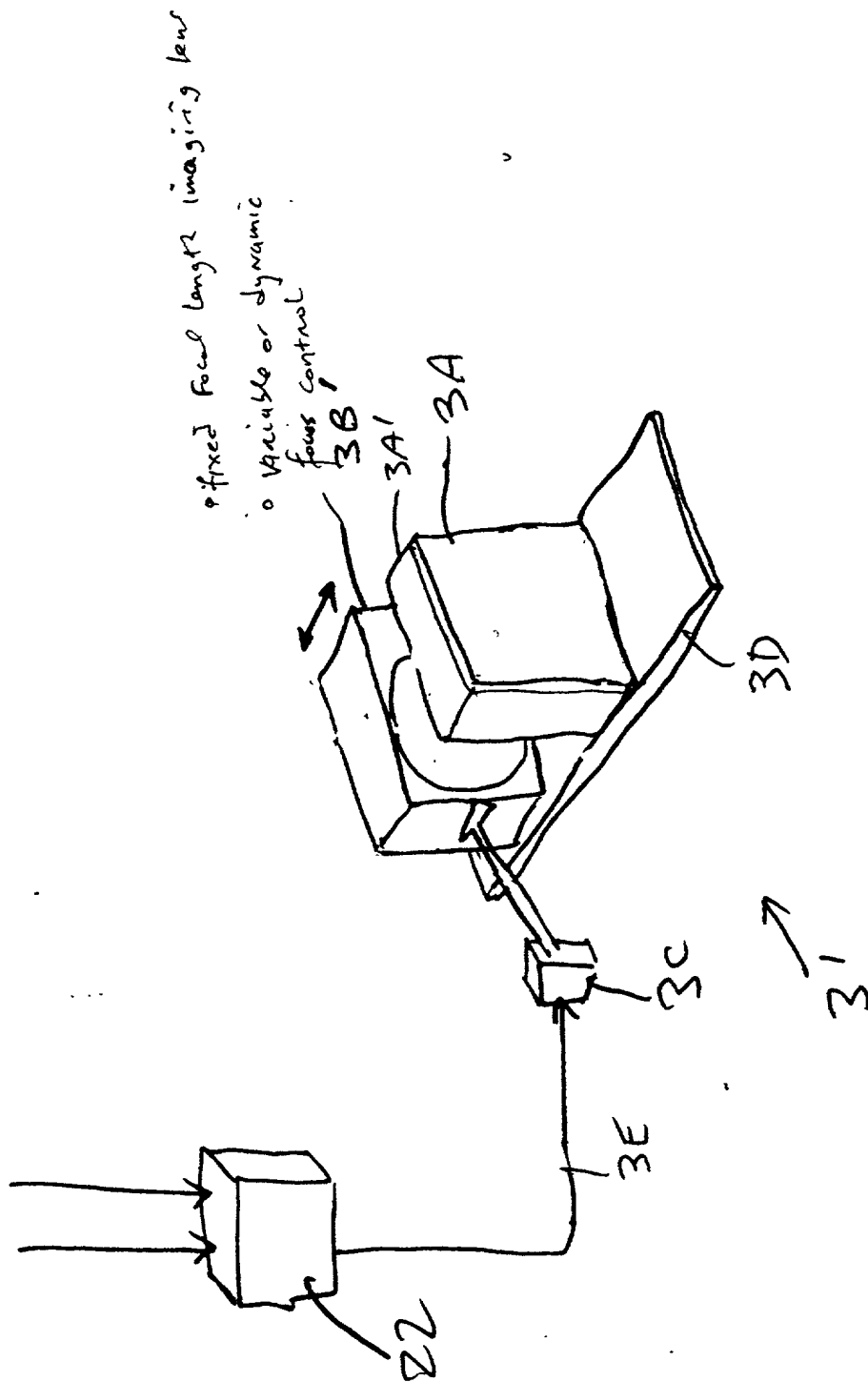


FIG. 2D3



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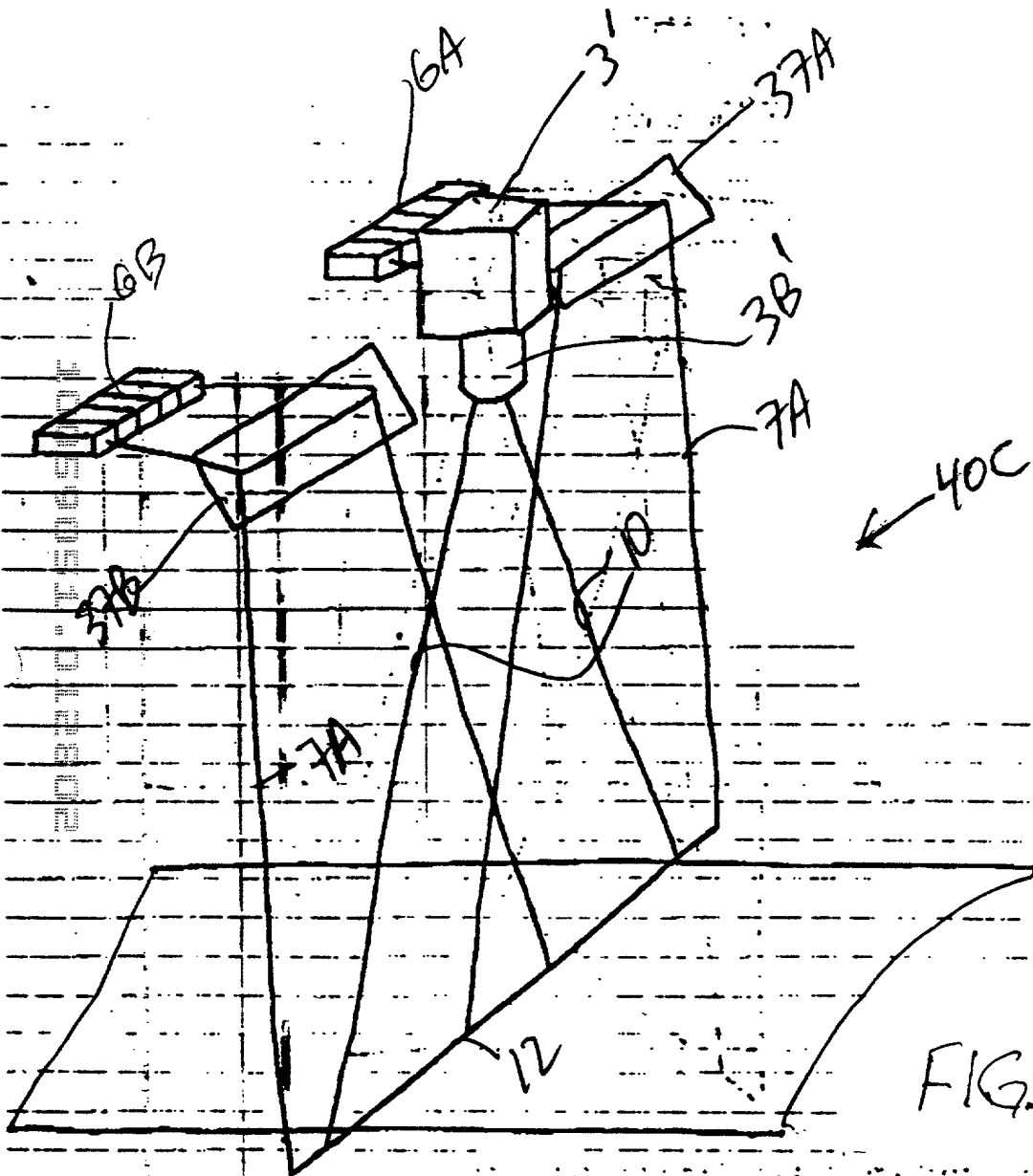


FIG. 2E1

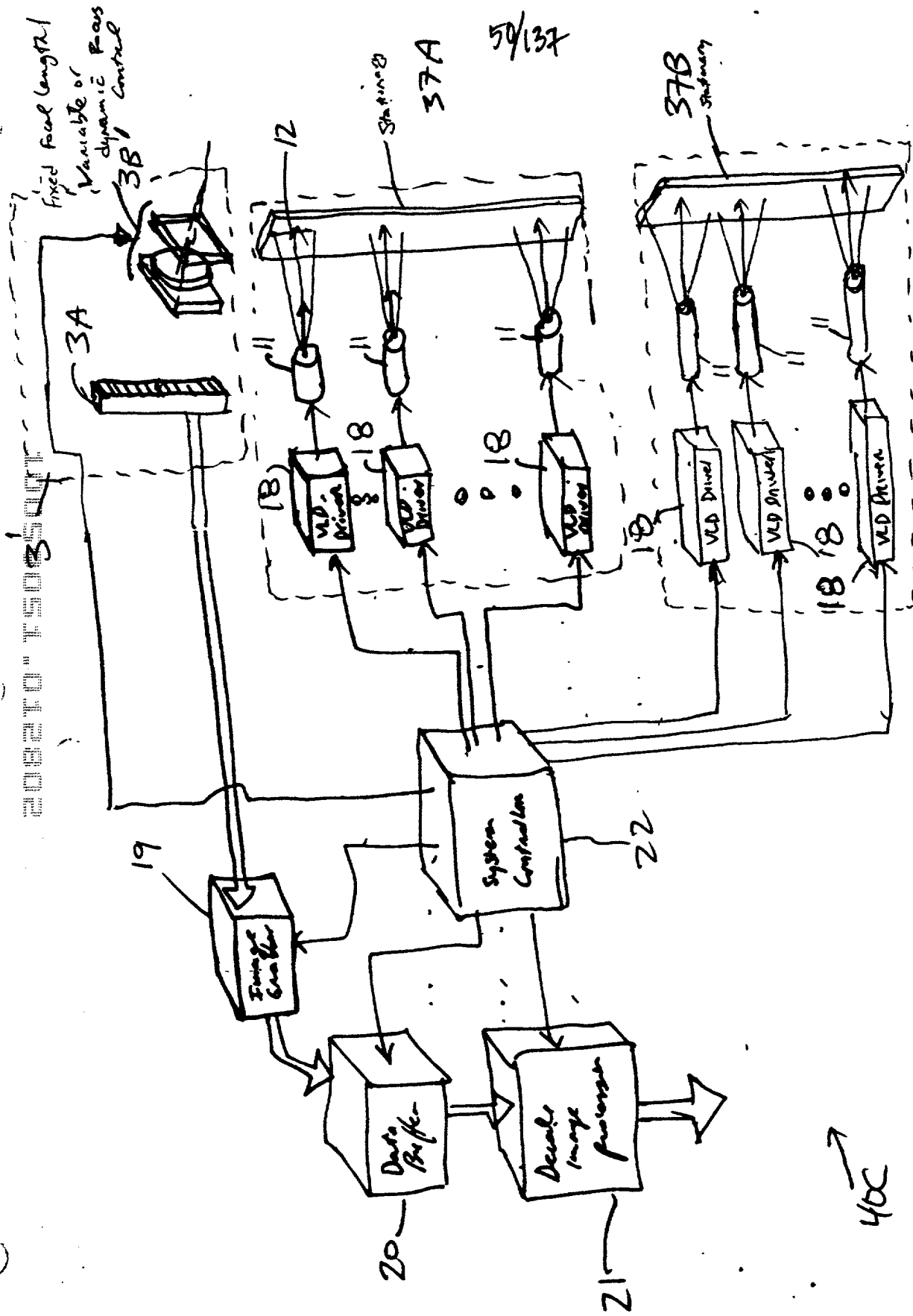


FIG. 2E2

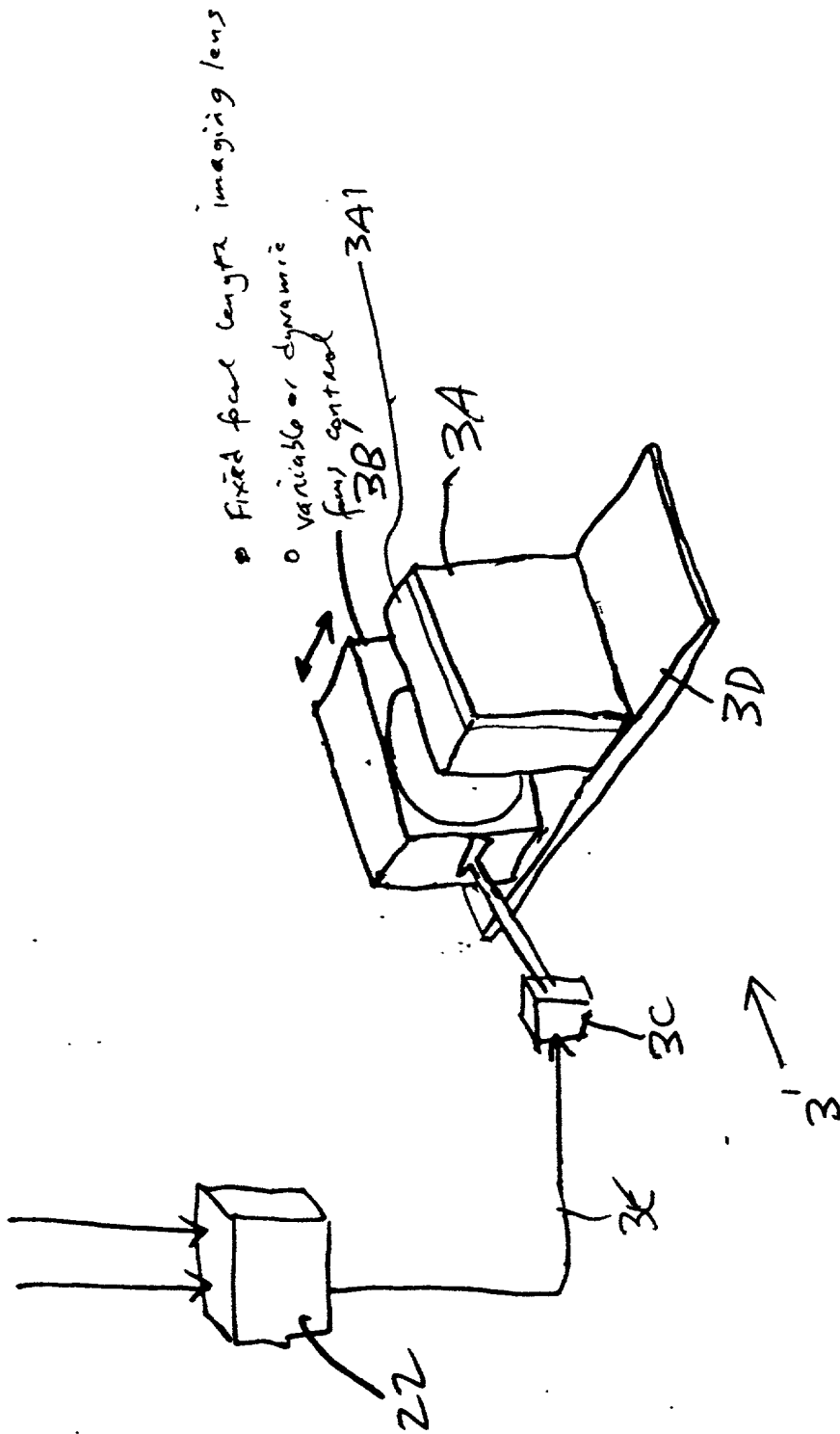


FIG. 2E3

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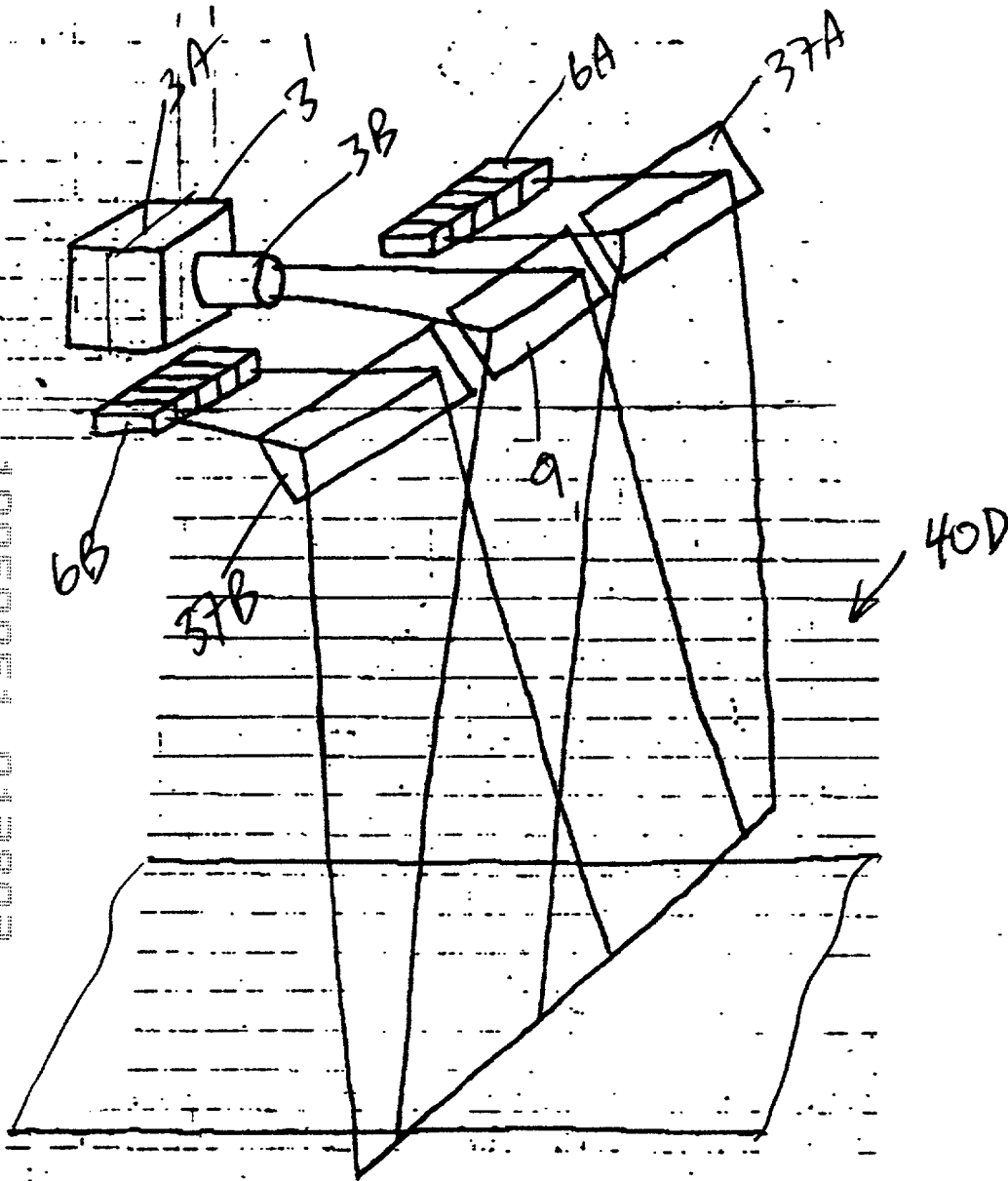


FIG. 2F1

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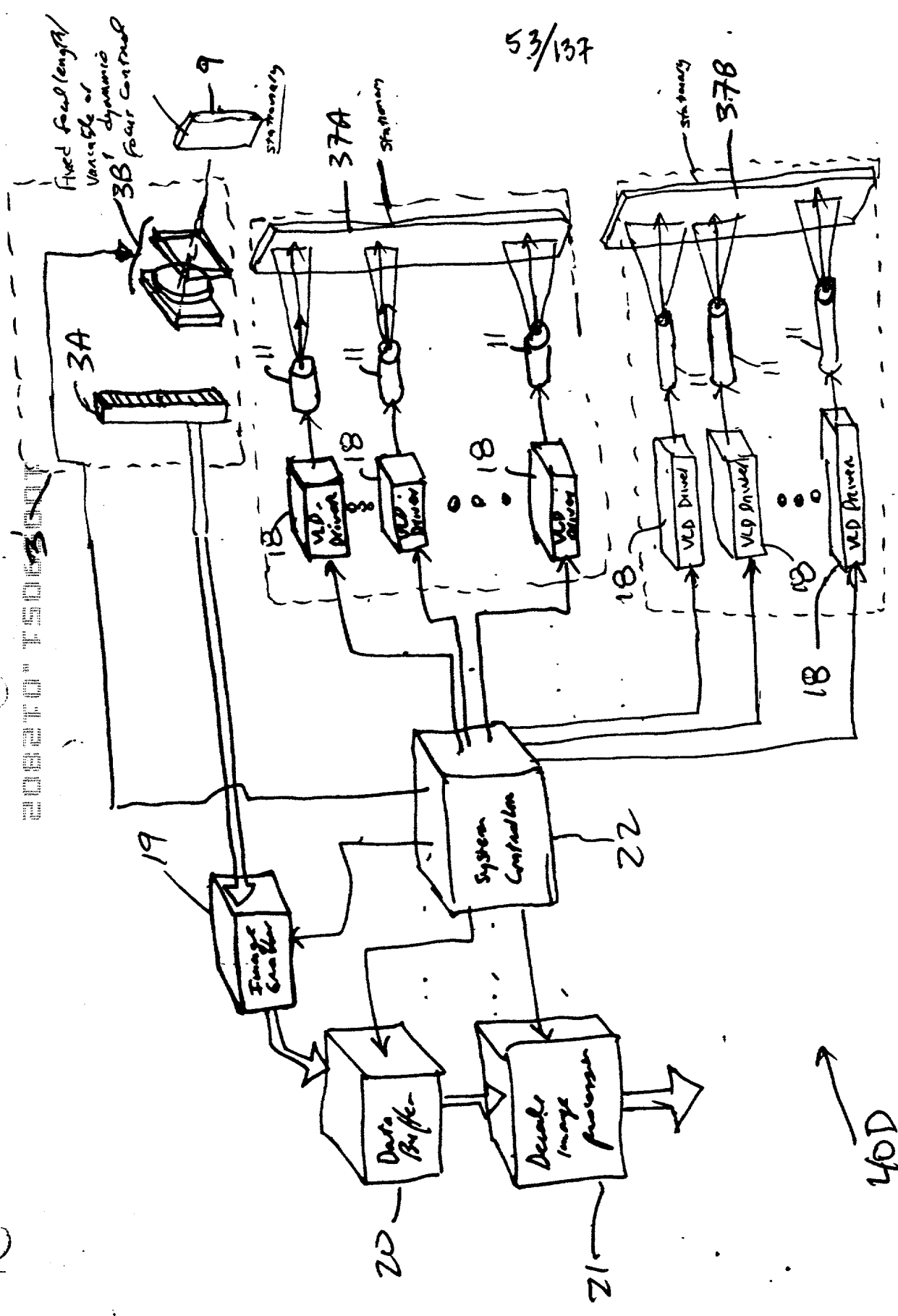


FIG. 2F2

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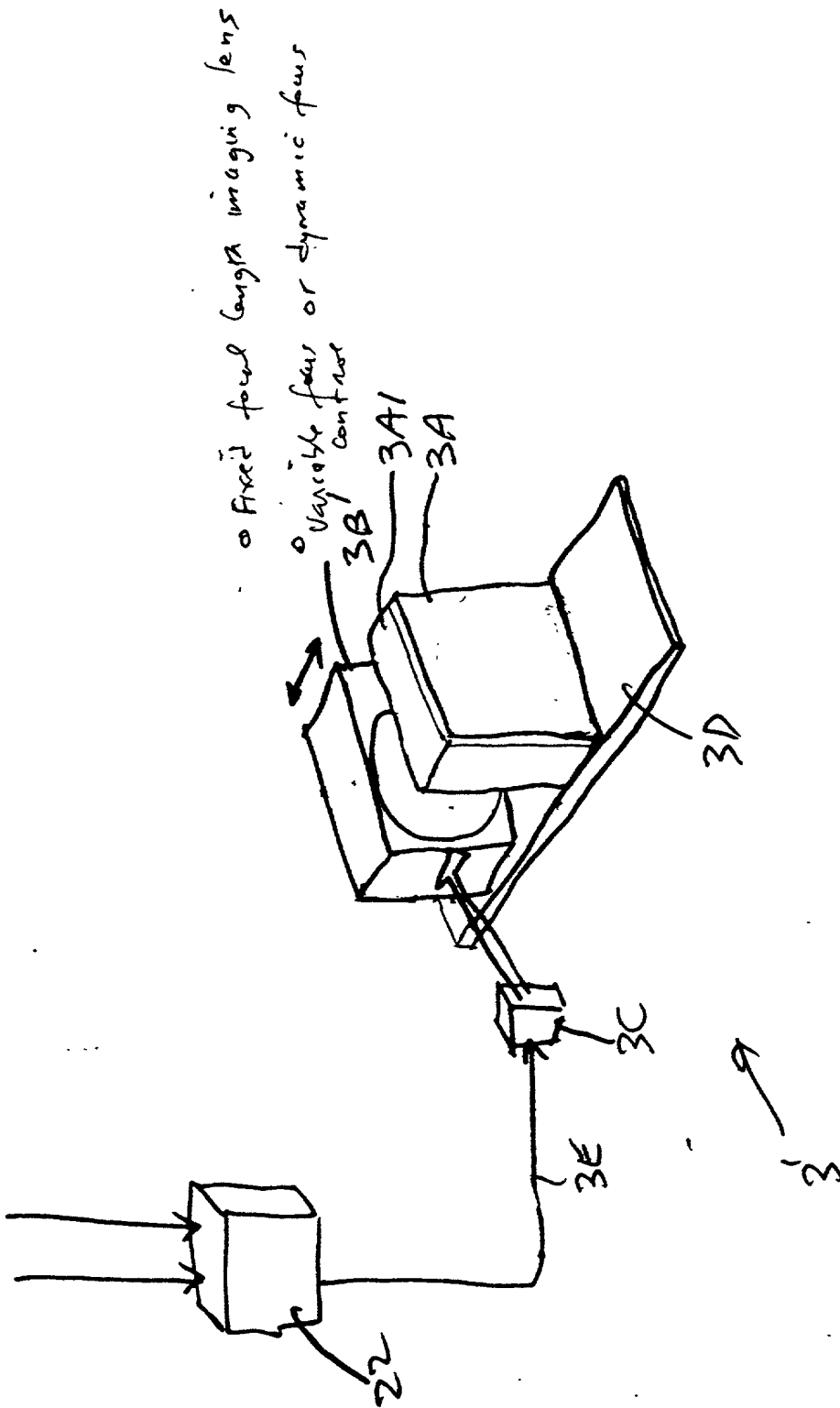


FIG. 2F3

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Top Conveyor Scanner:

- fixed focal length imaging lens
- variable focal distance control

Side Conveyor Scanner:

- fixed focal length imaging lens
- dynamic focal distance control

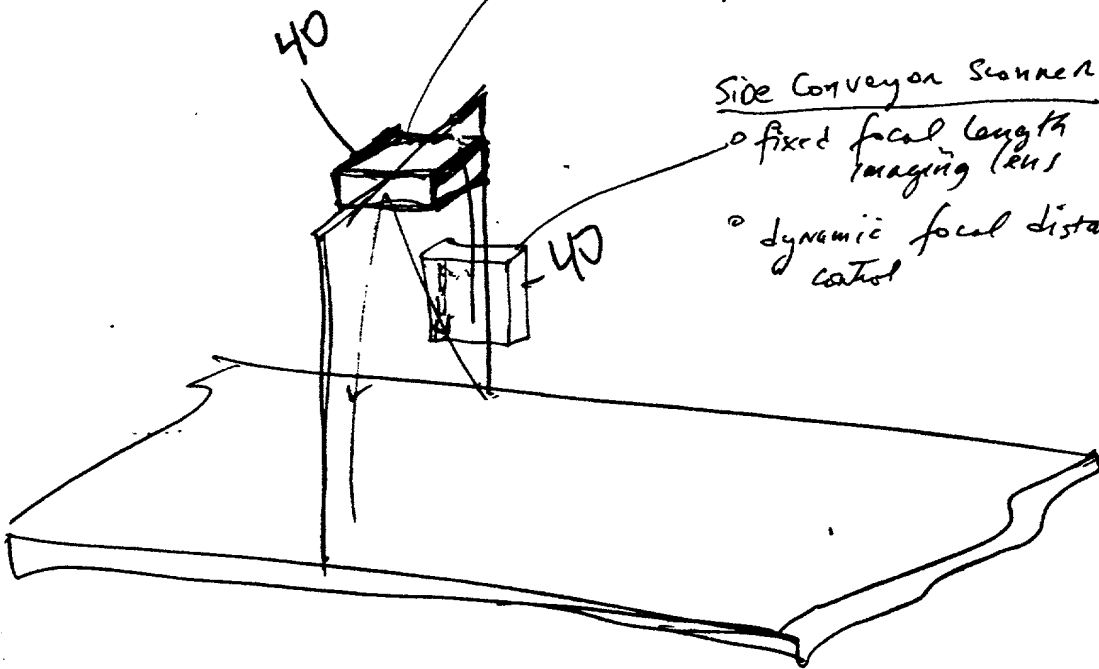
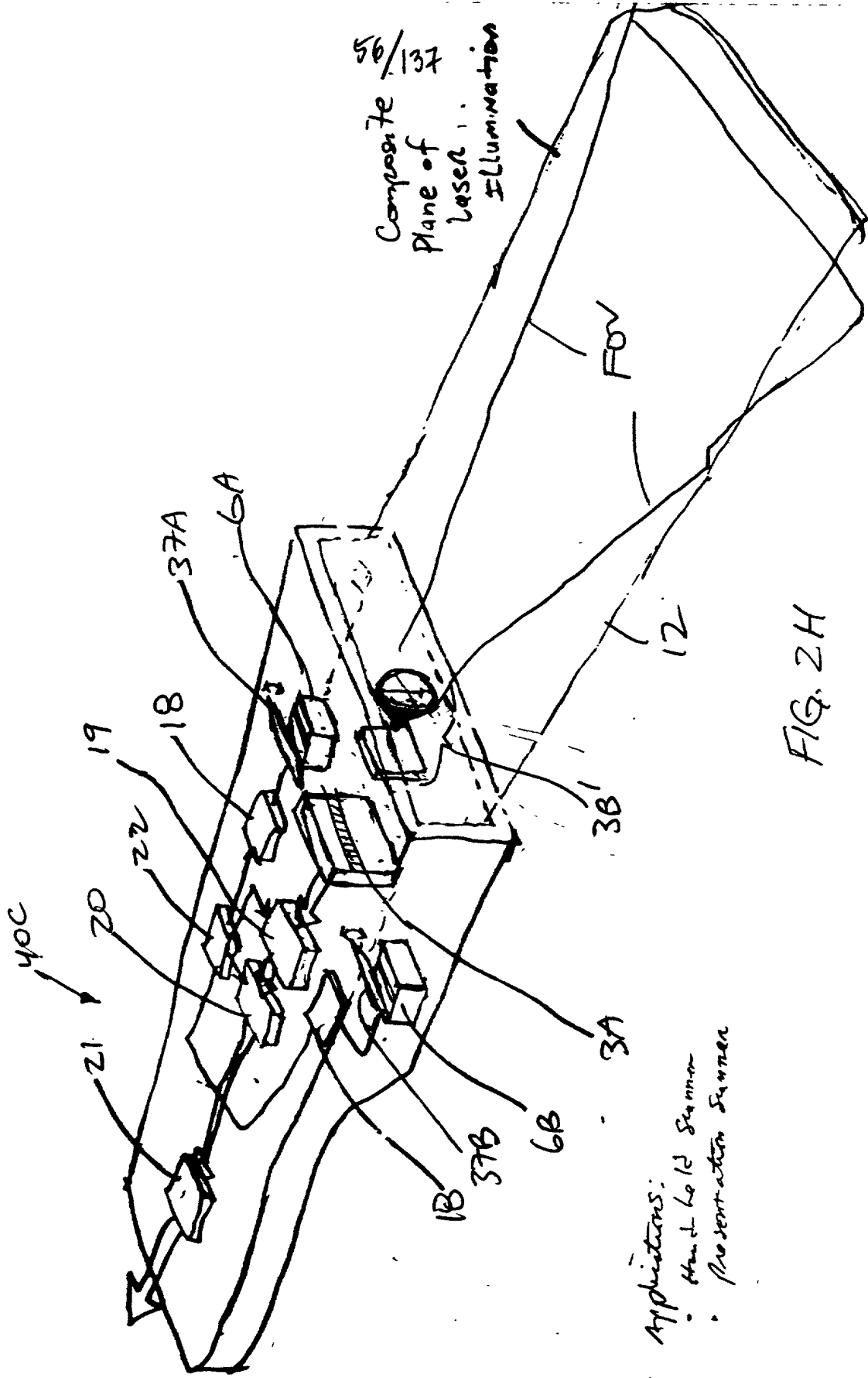


FIG. 2G

20250510 15065007



Applications:

- Hand-held Scanner
- Presentation Scanner



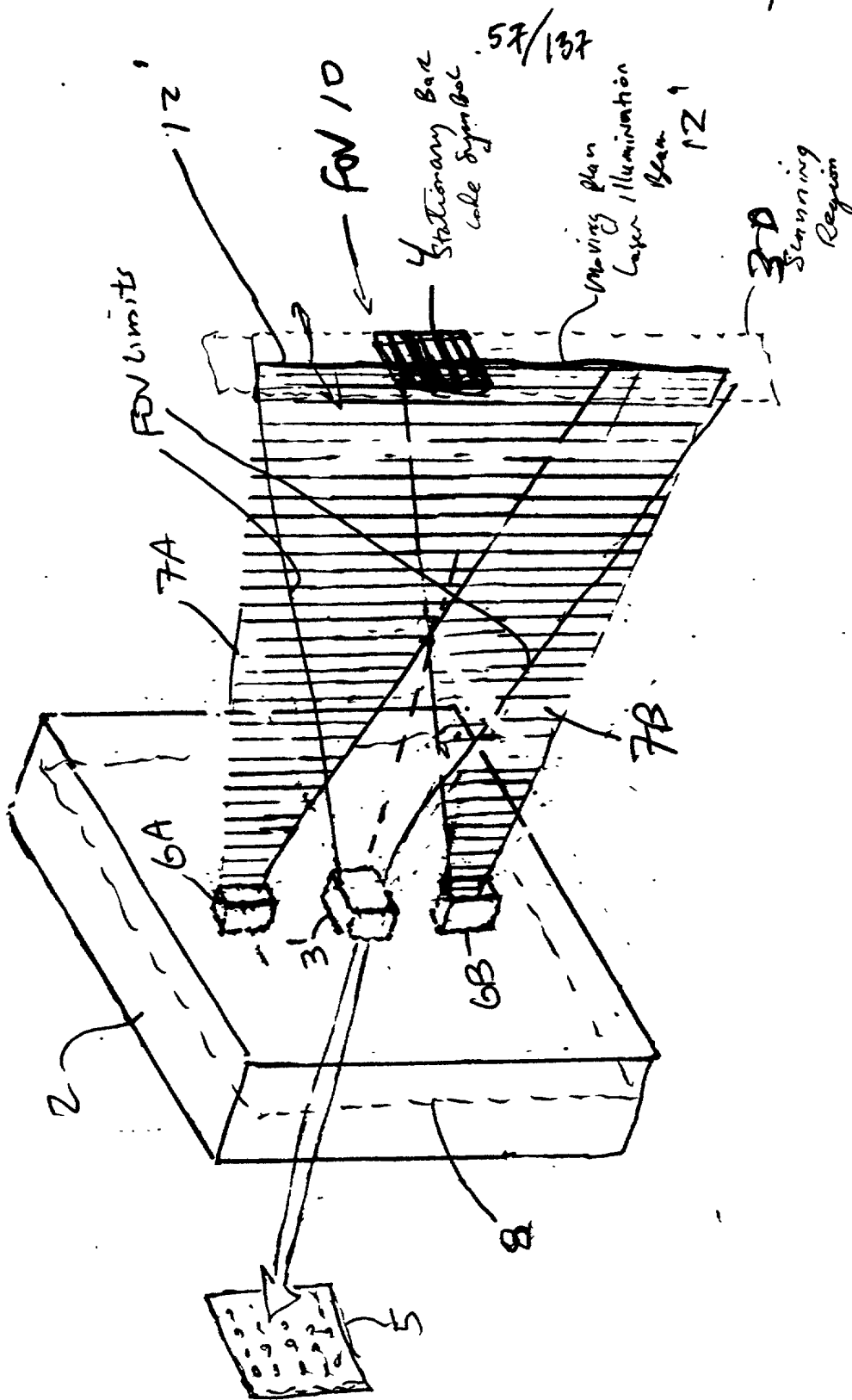


FIG. 2II

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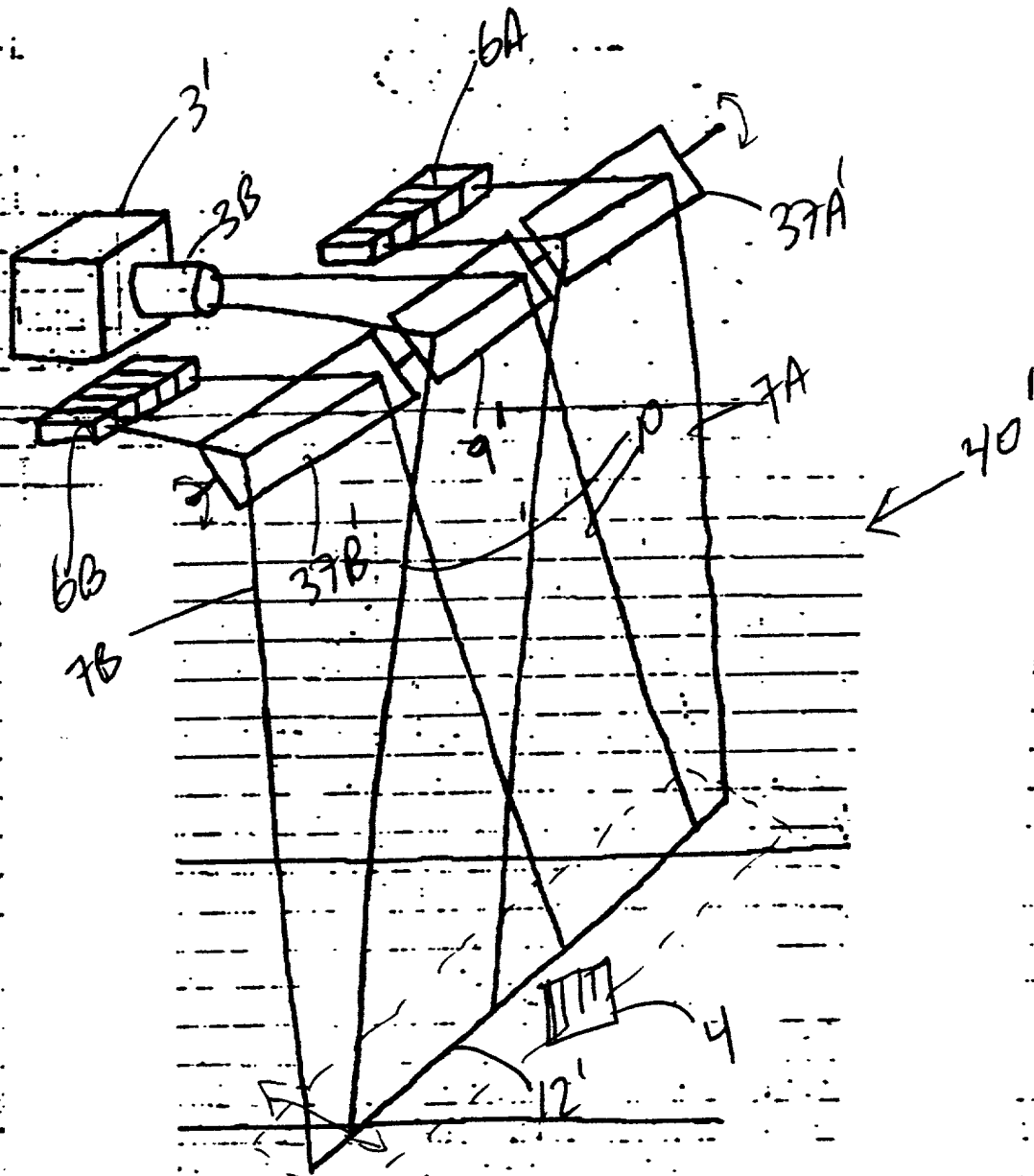


FIG 2I2

0.0

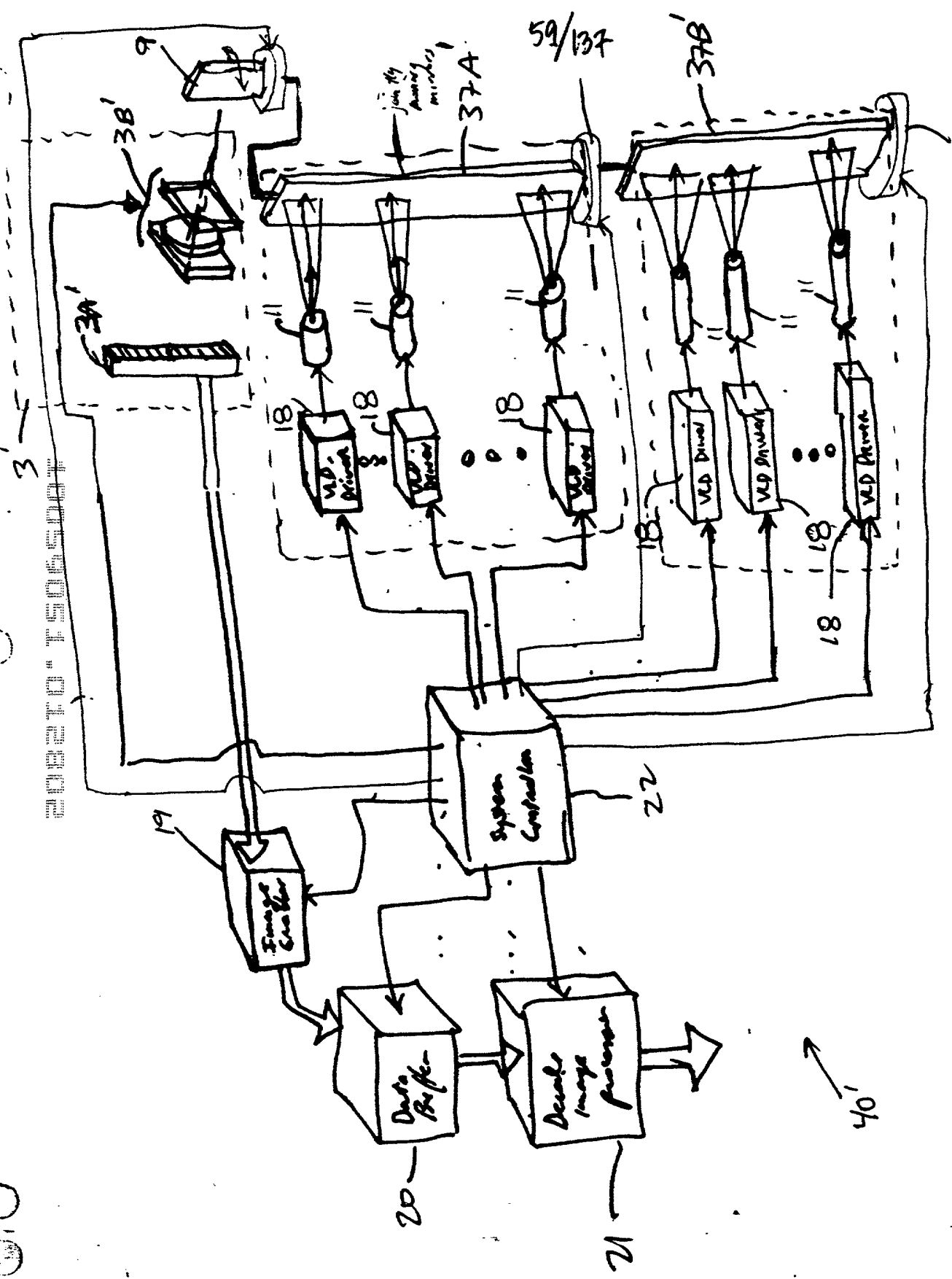


FIG. 2I3

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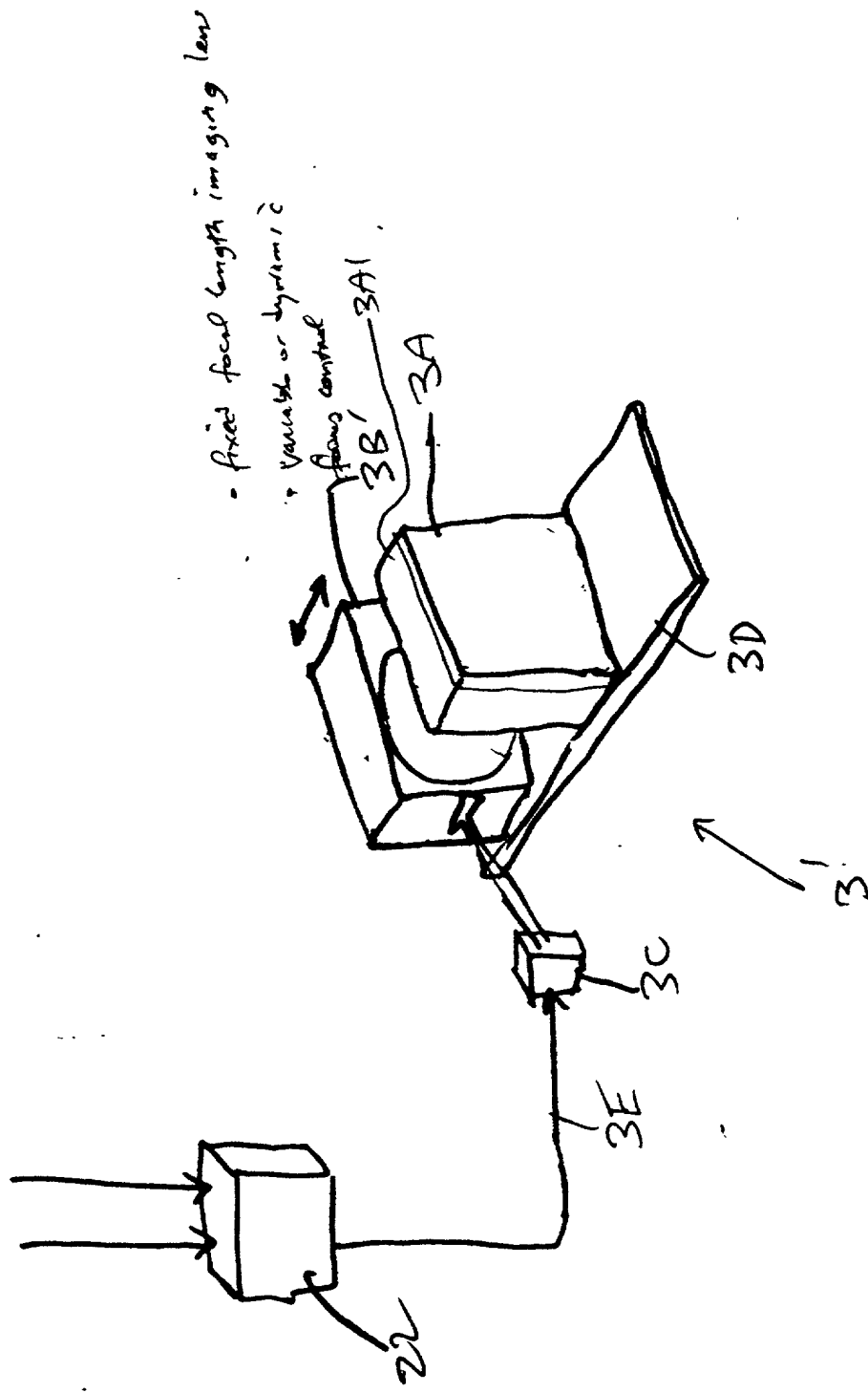


FIG. 2I4

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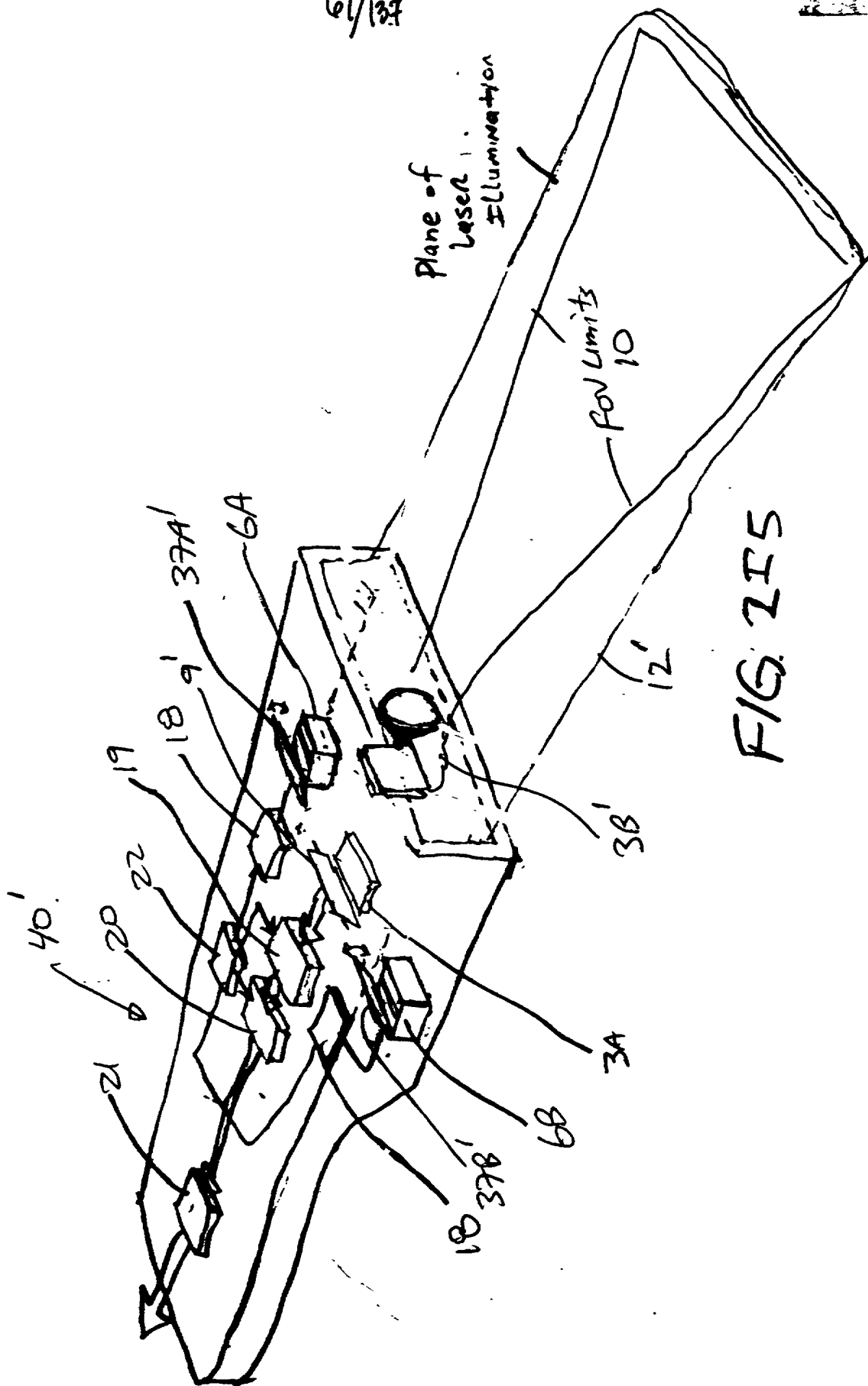


FIG. 215

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208270-1506500T

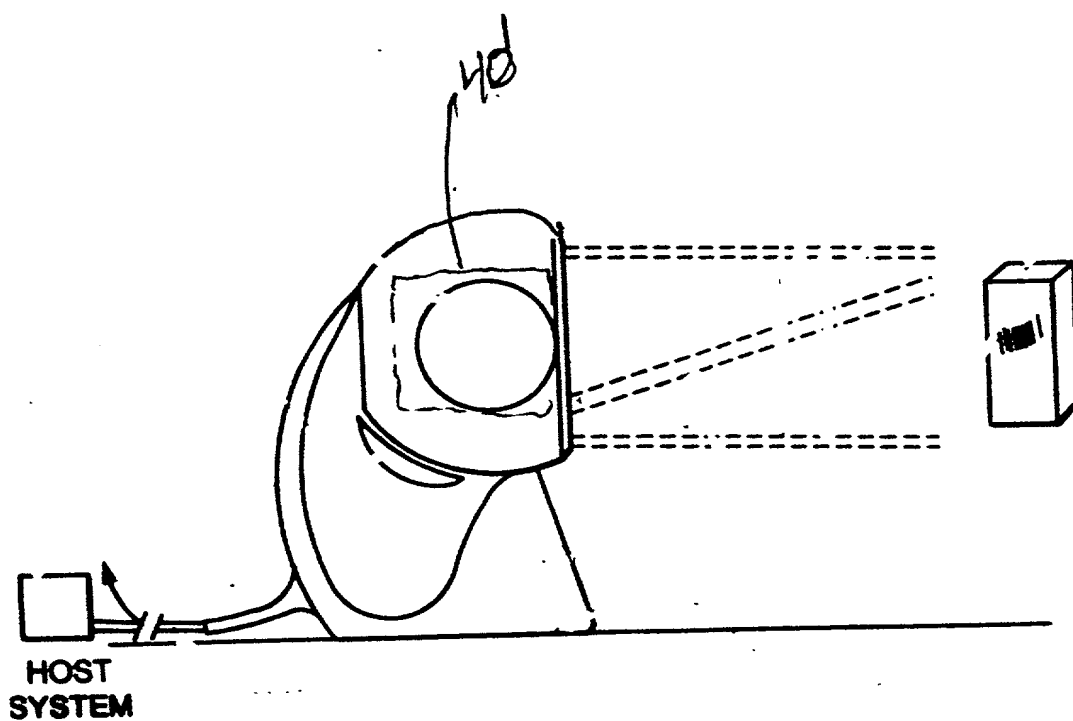


FIG. 2I6

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FIG 3A

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208270 T506500T

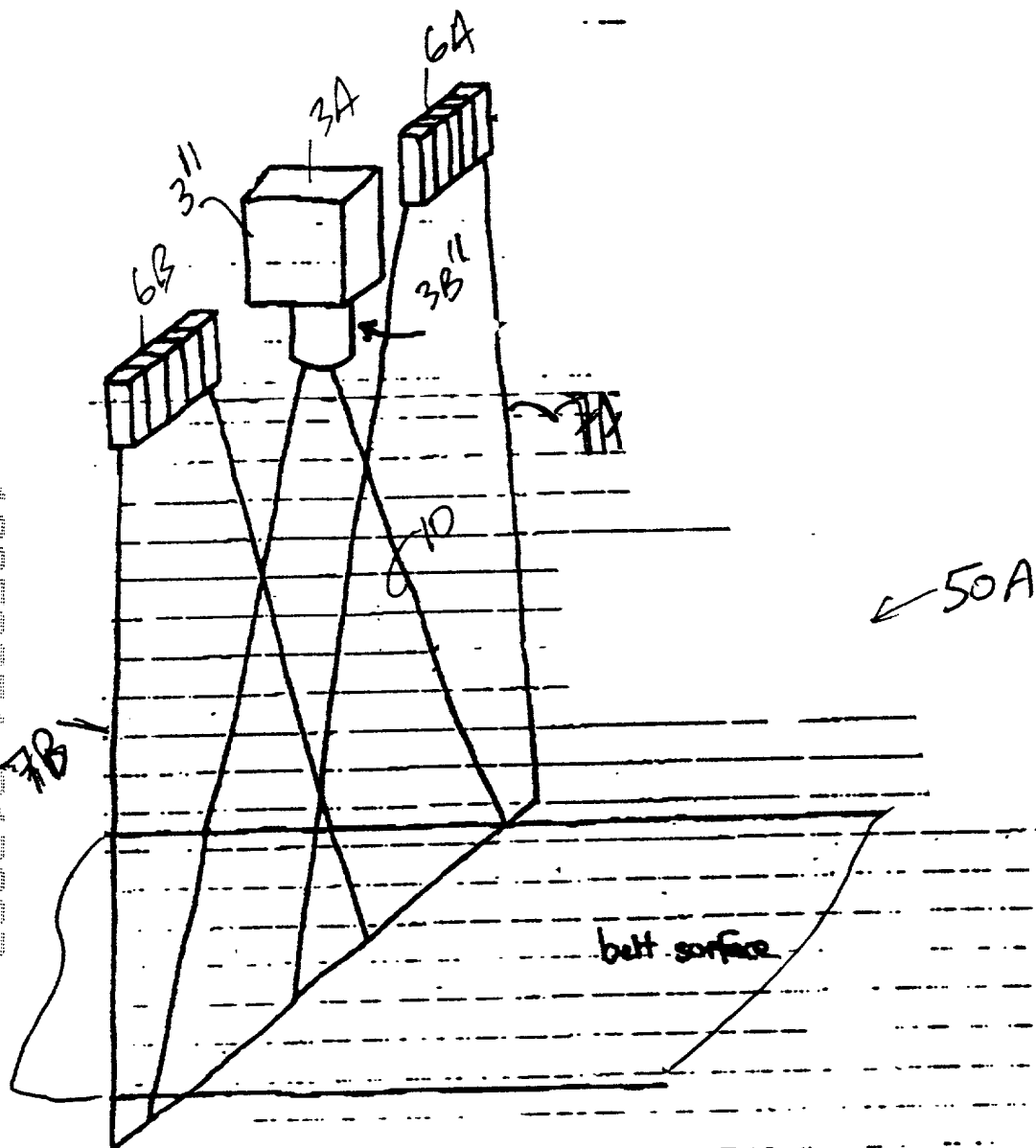


FIG. 3B1



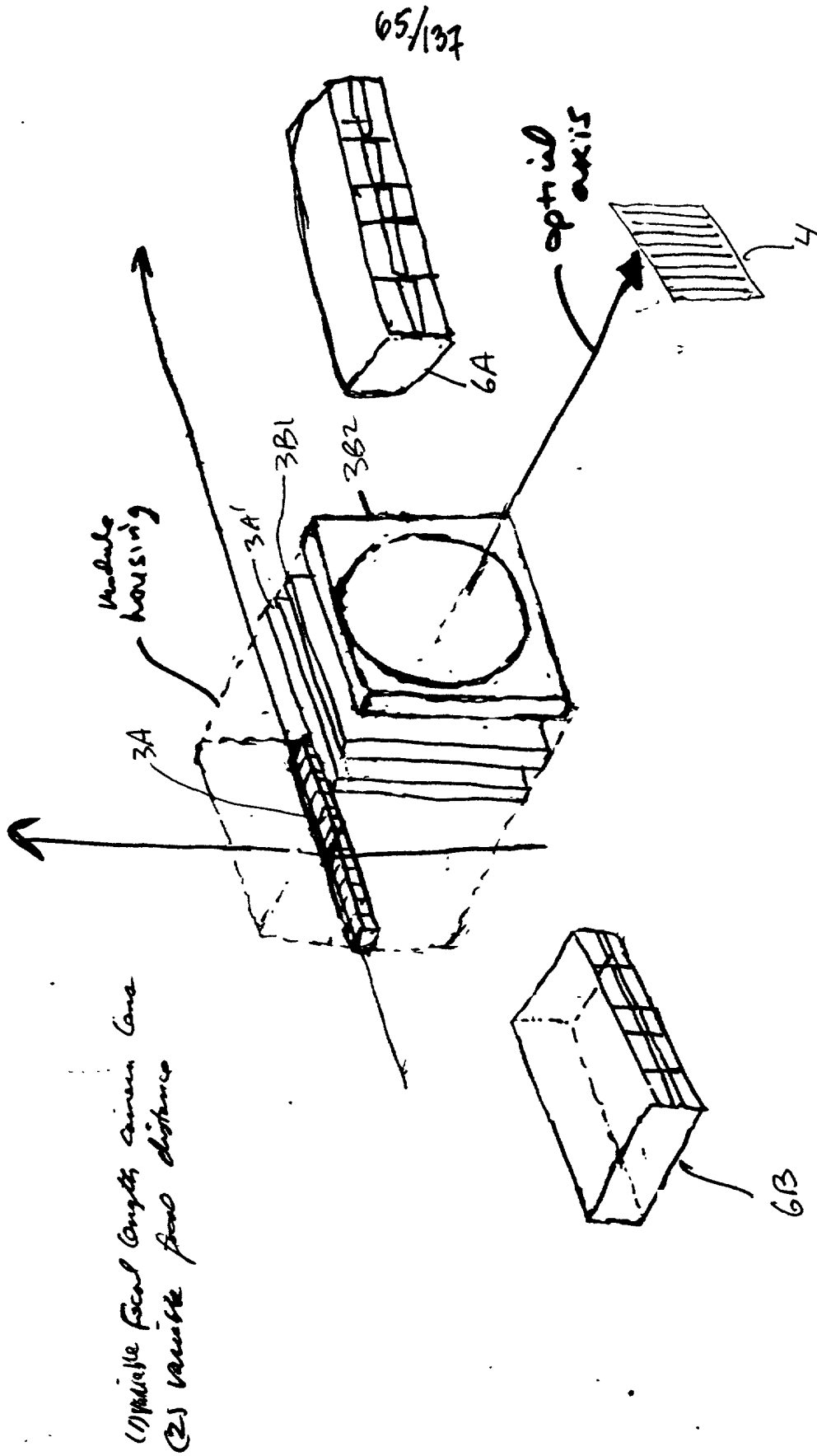


FIG. 3B2

[illegible]

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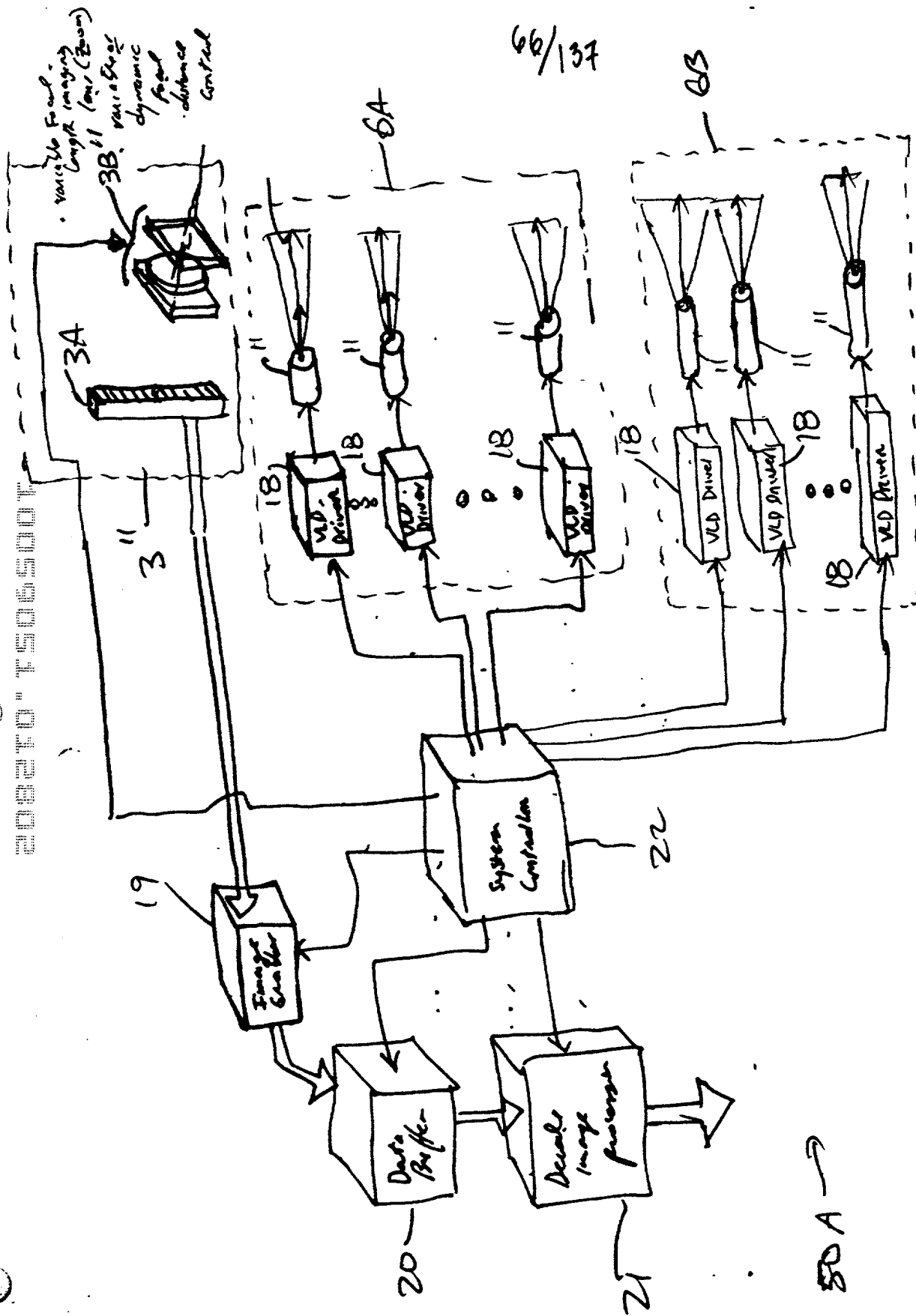
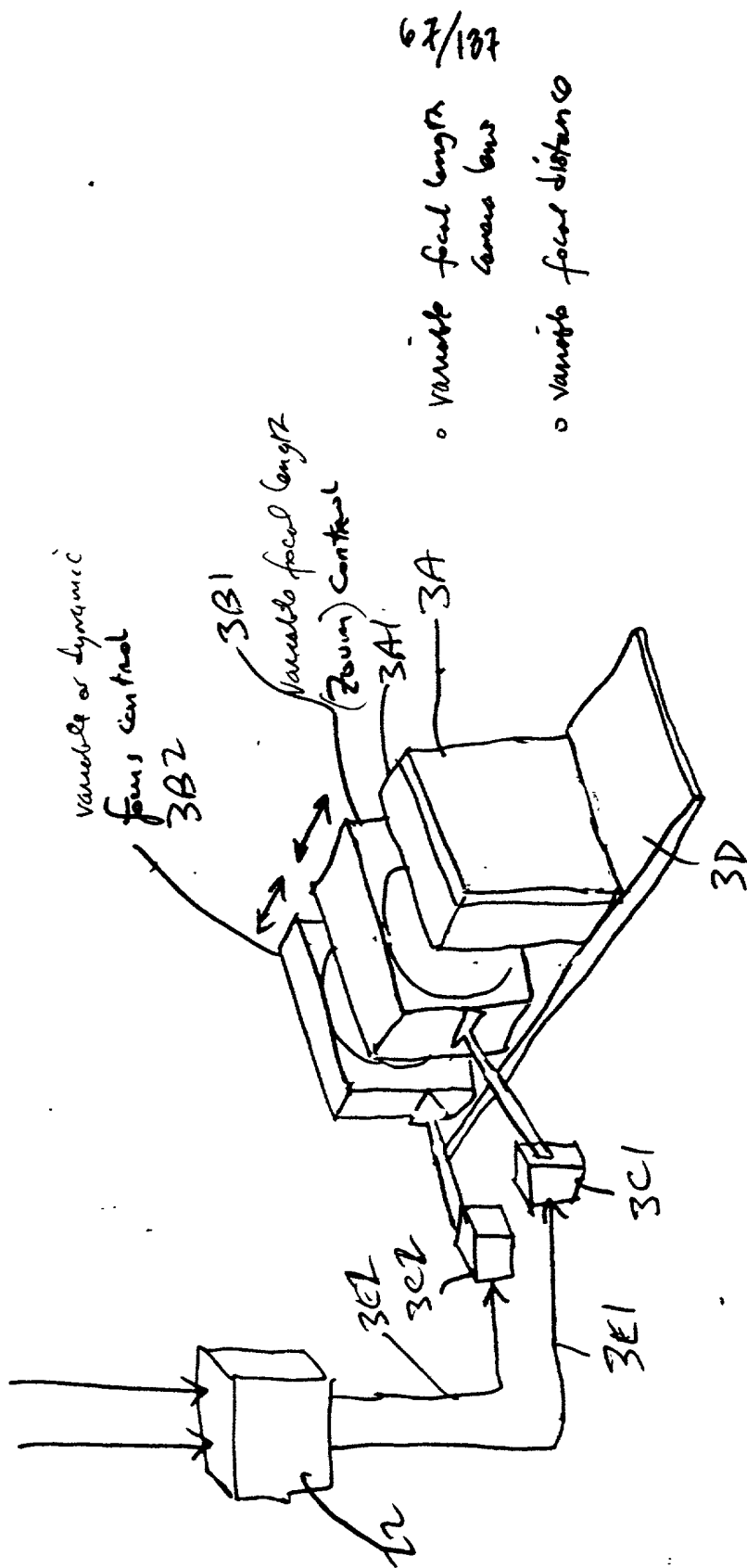


FIG. 3c1



- 67/137
- o Variable focal length camera lens
  - o Variable focal distance

FIG. 3C2

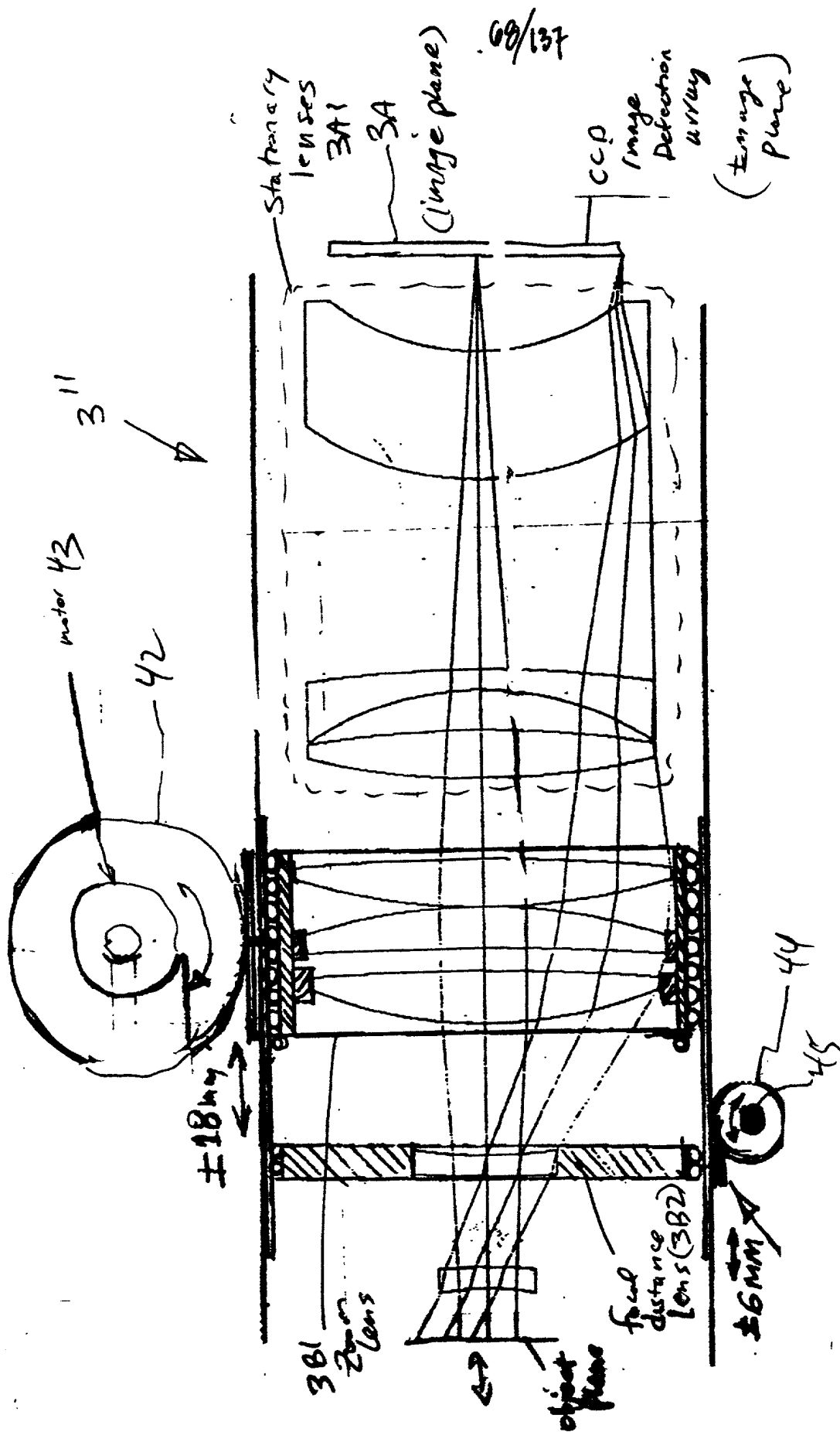
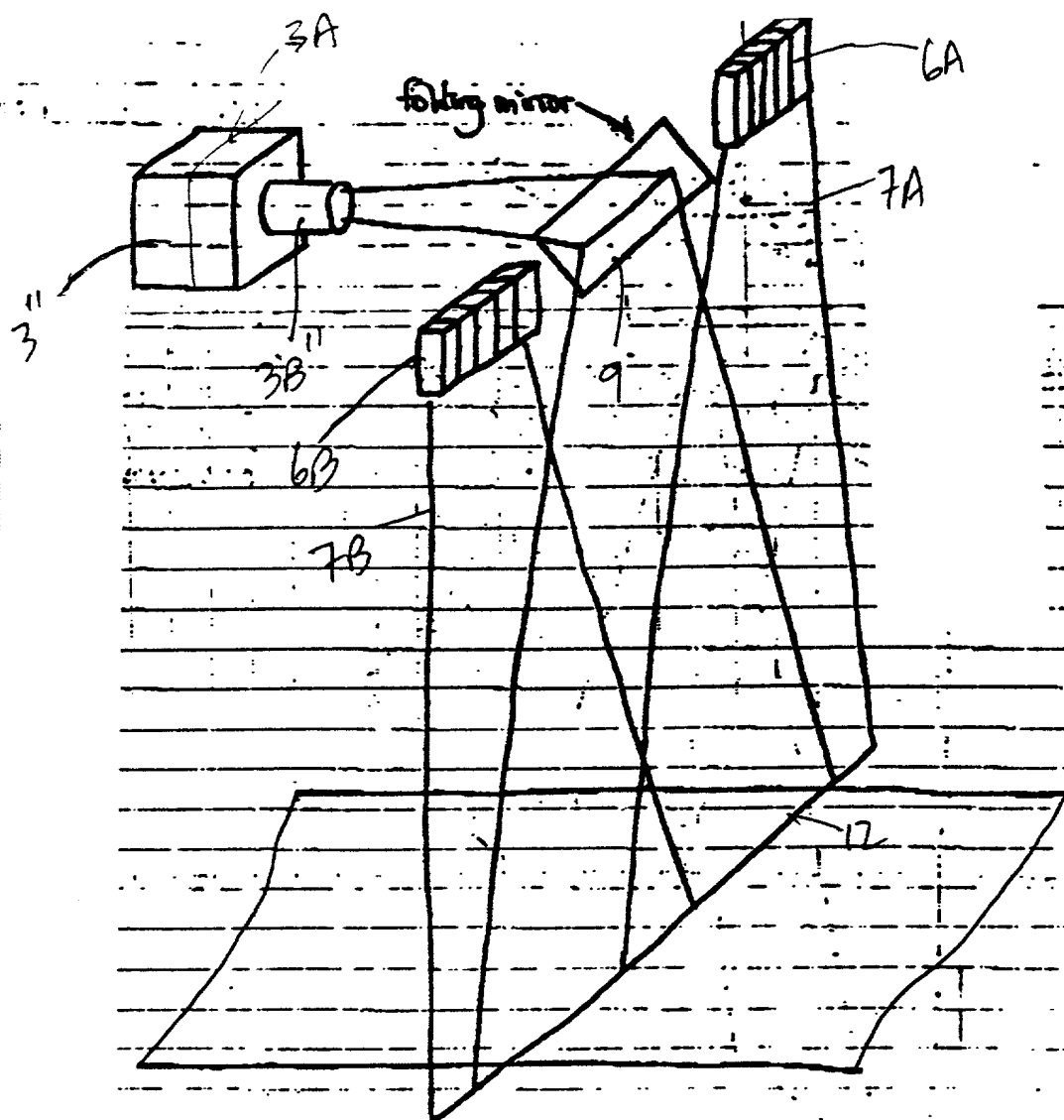


FIG. 3D

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AG 3EI

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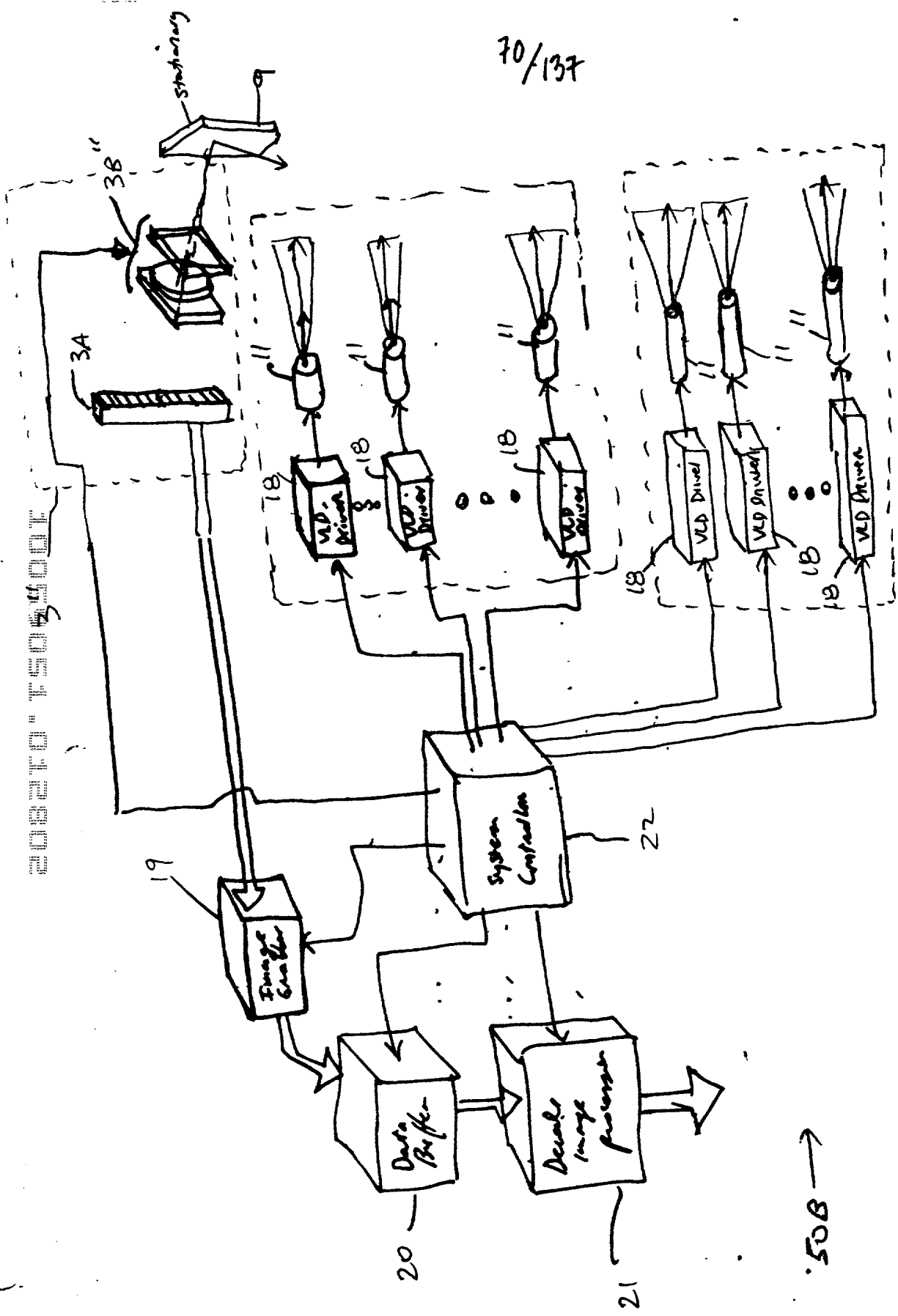


FIG. 3E2

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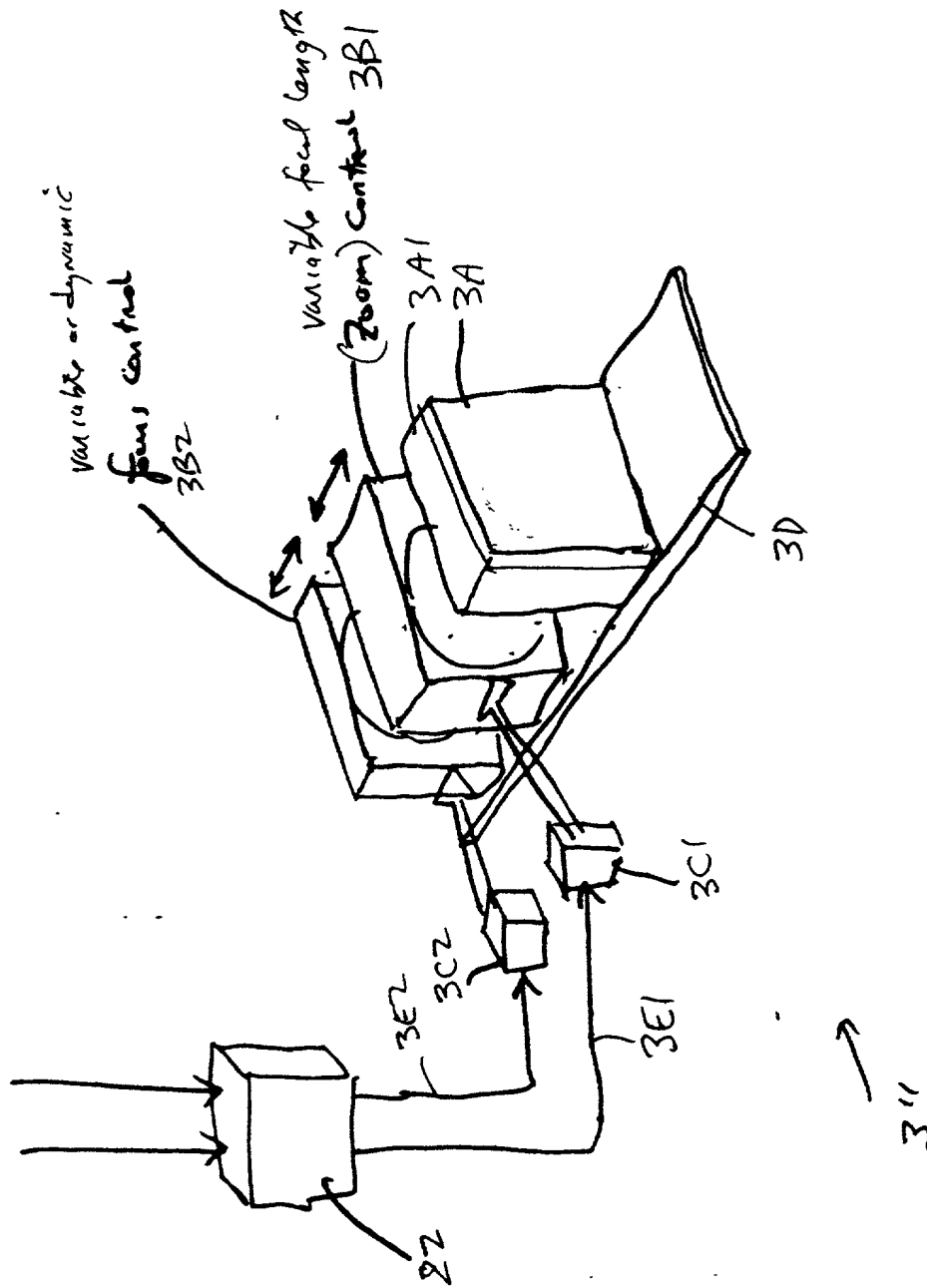


FIG. 3E3

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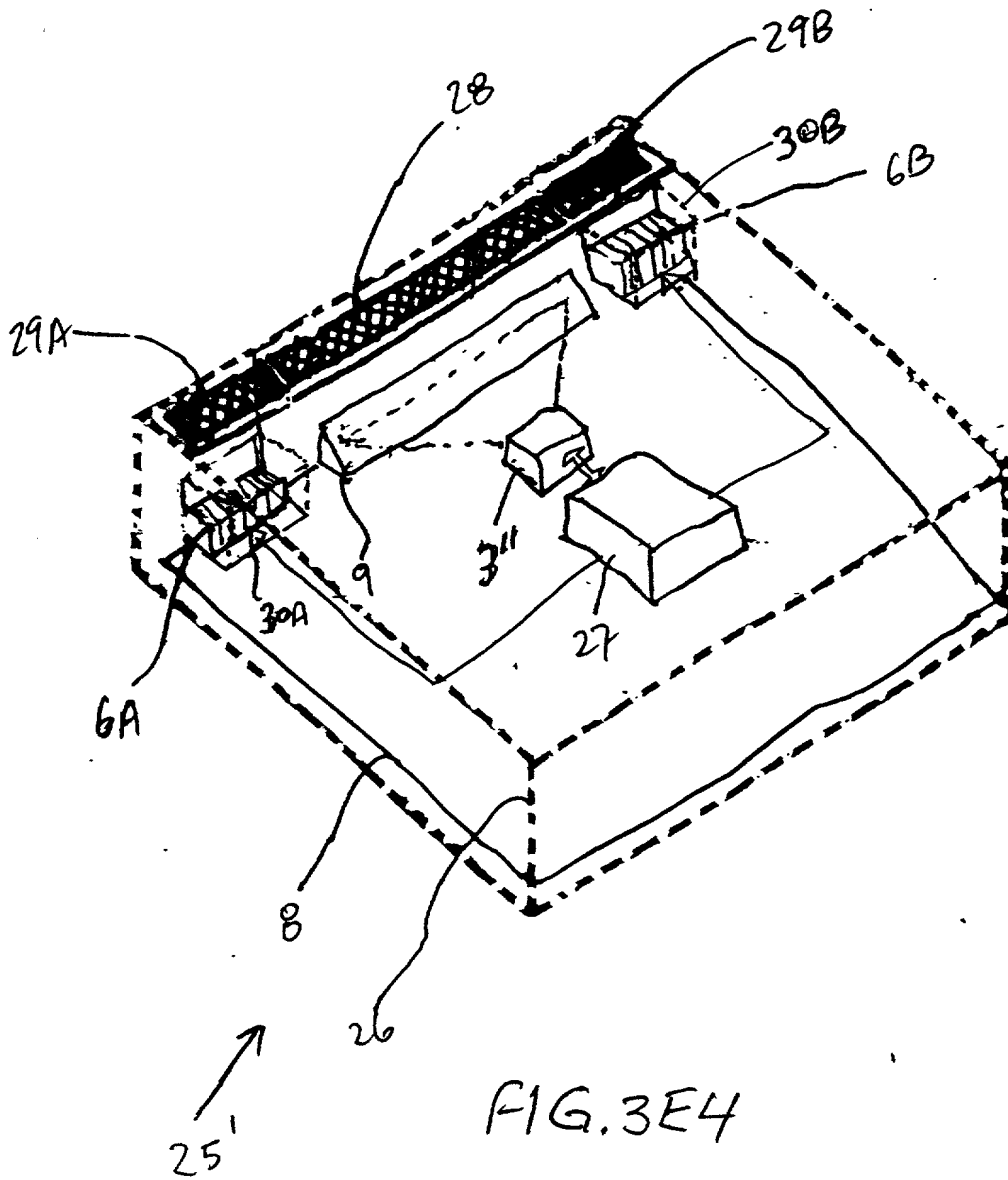


FIG. 3E4



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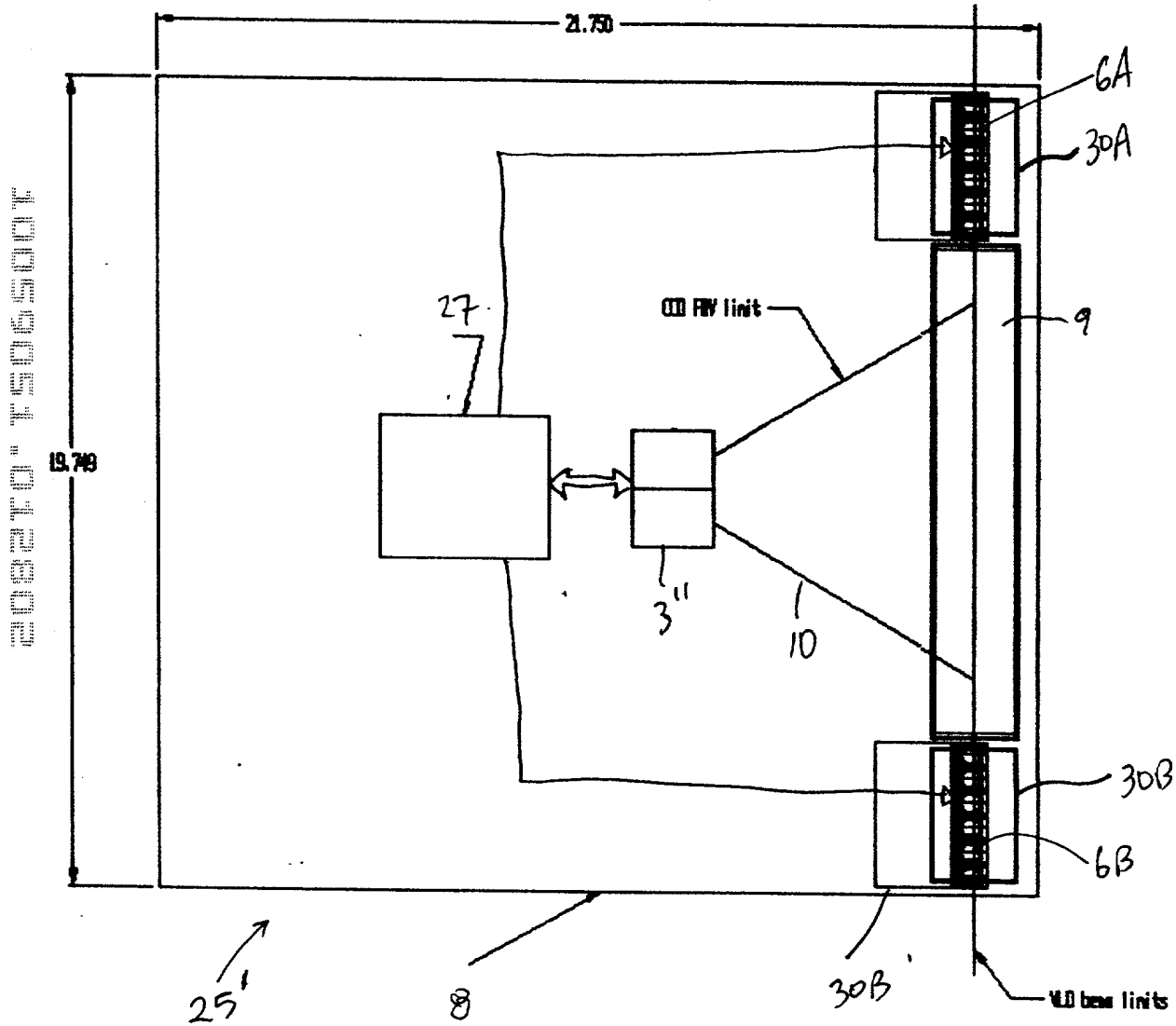


FIG. 3E5

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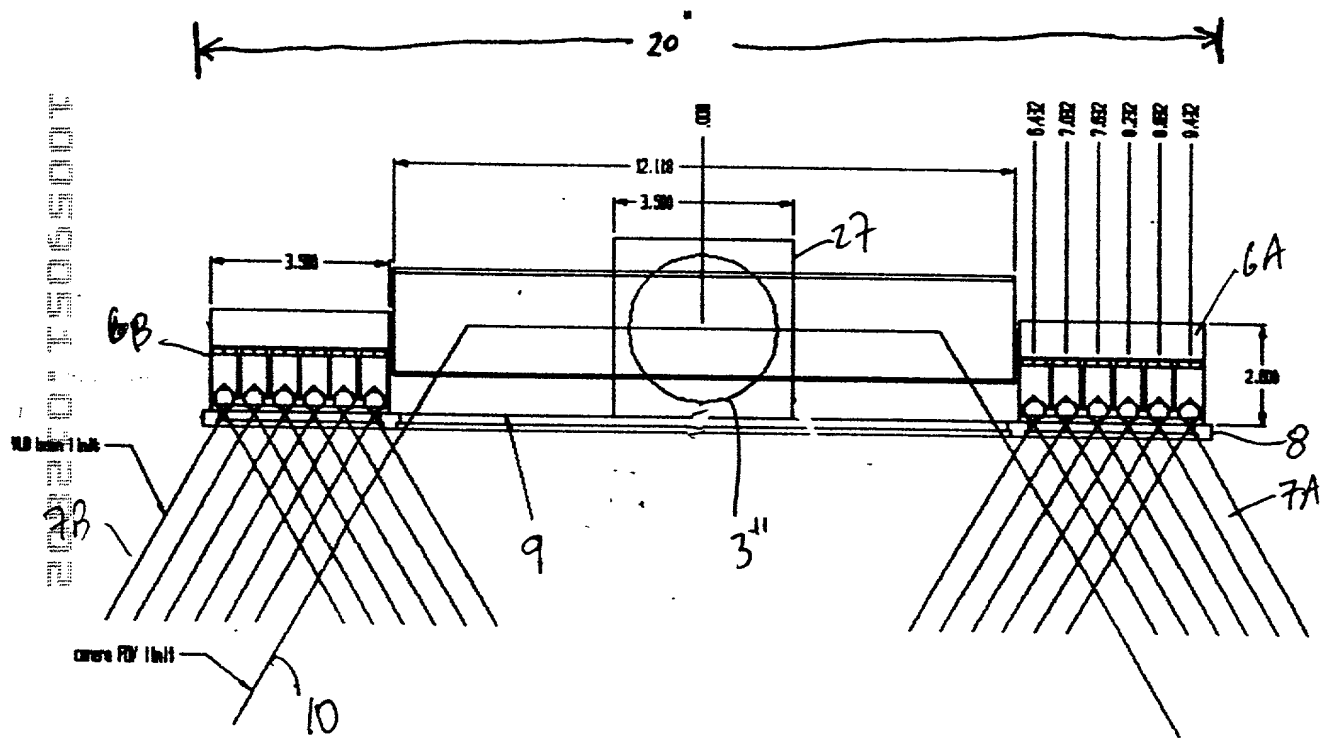


FIG. 3E6

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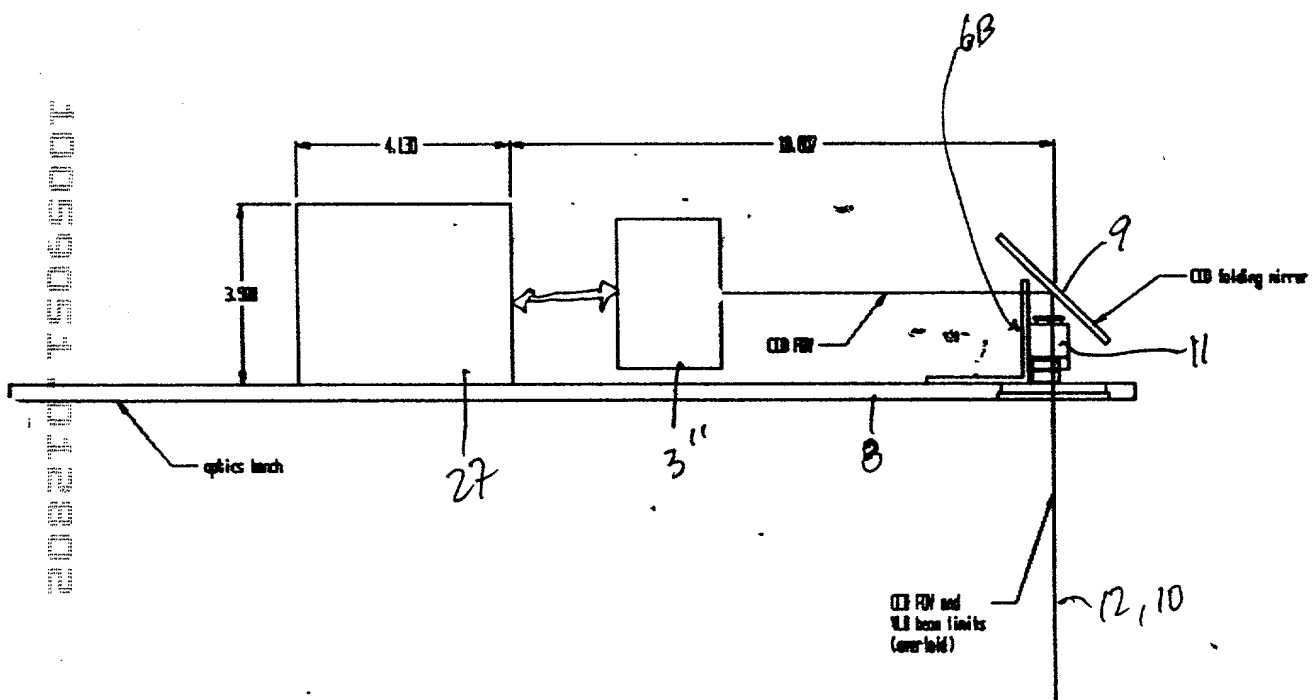


FIG. 3E7

[illegible]

FIG. 3E8

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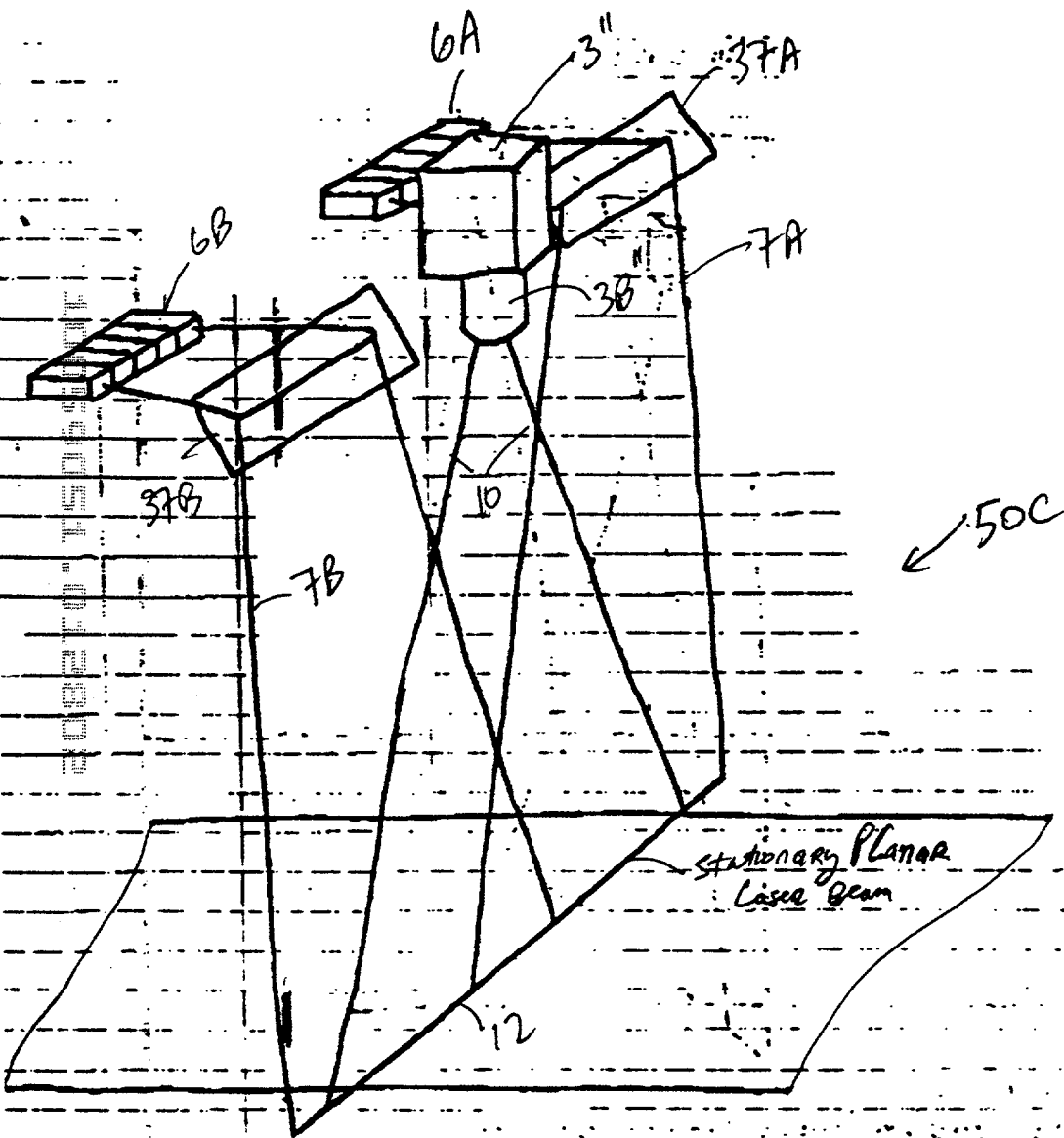


FIG 3F1

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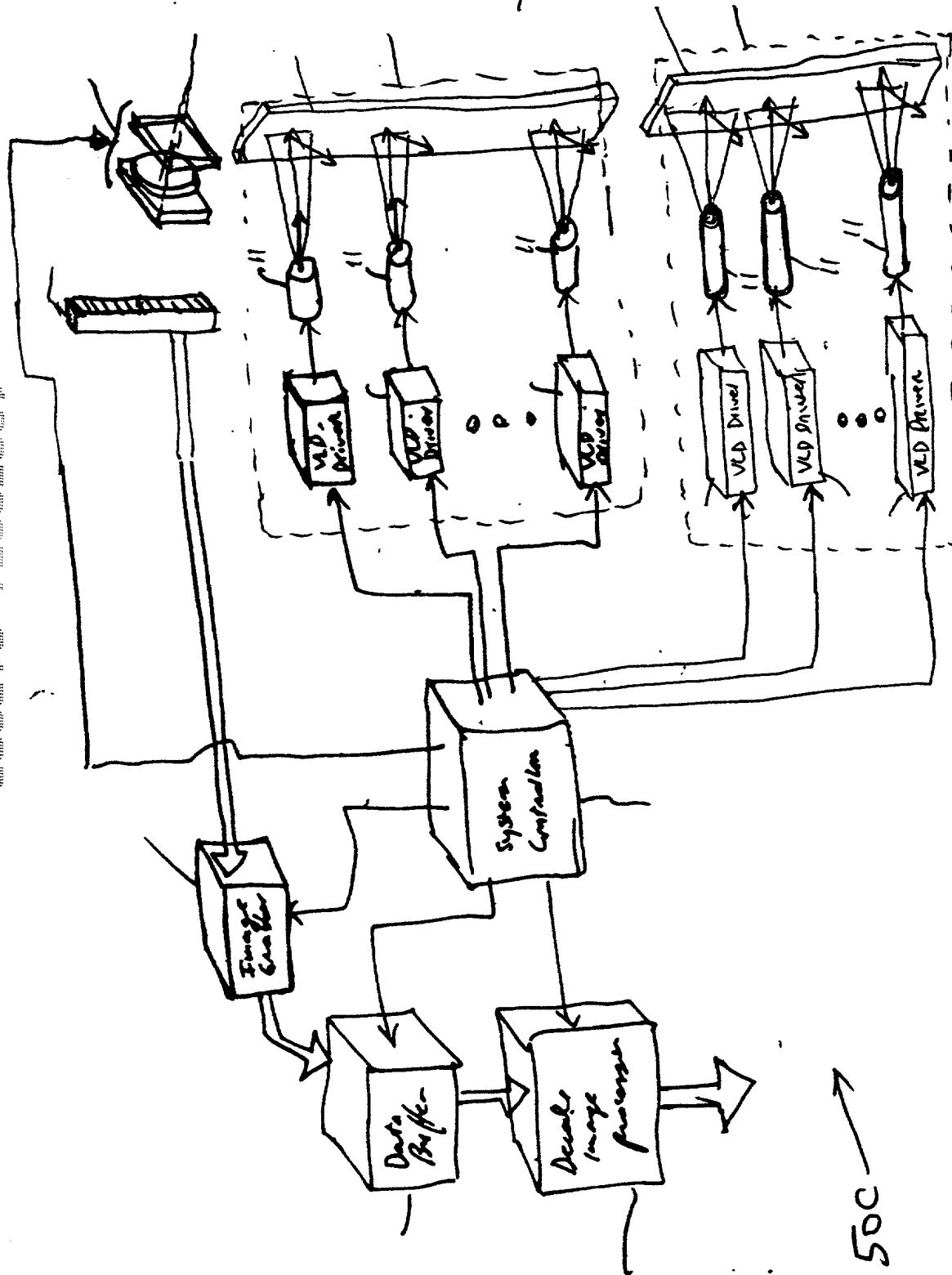


FIG. 3F2

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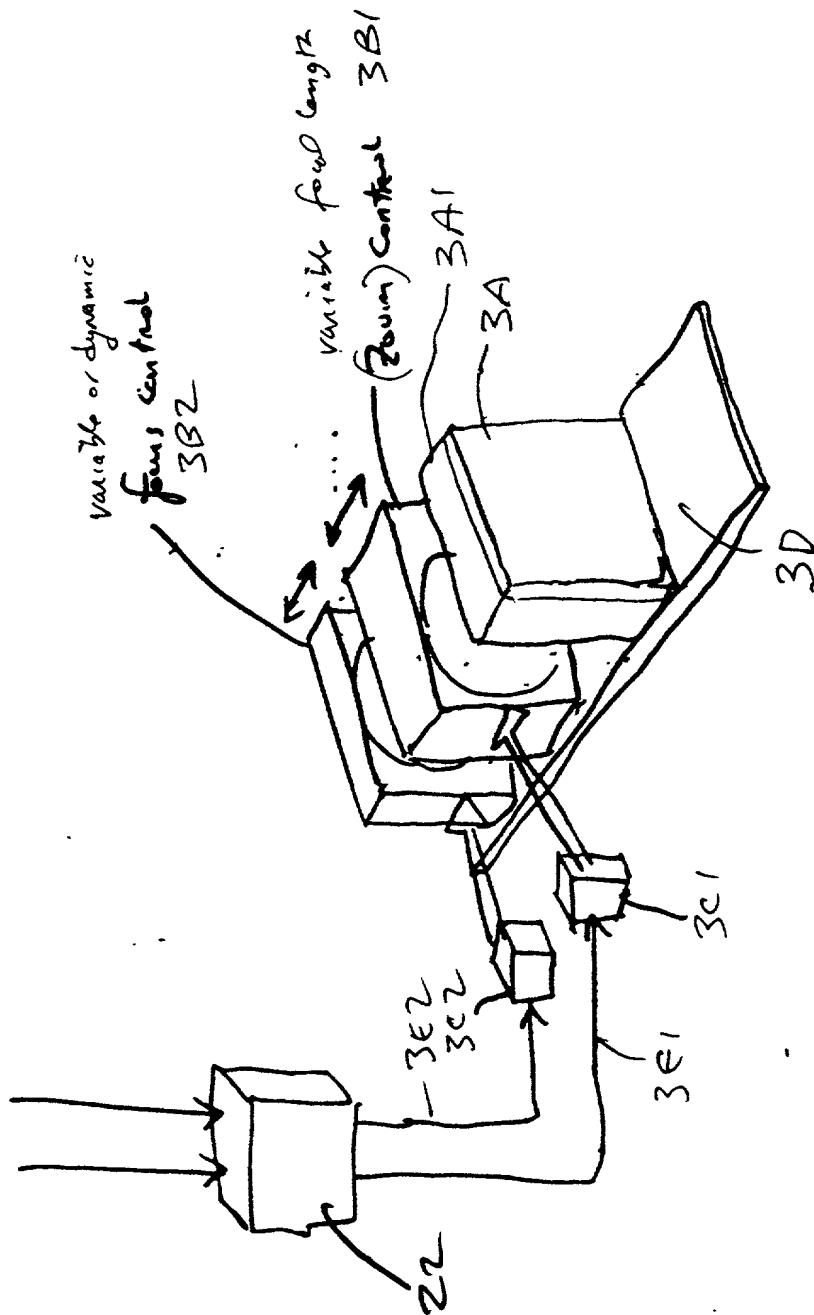


FIG. 3F3

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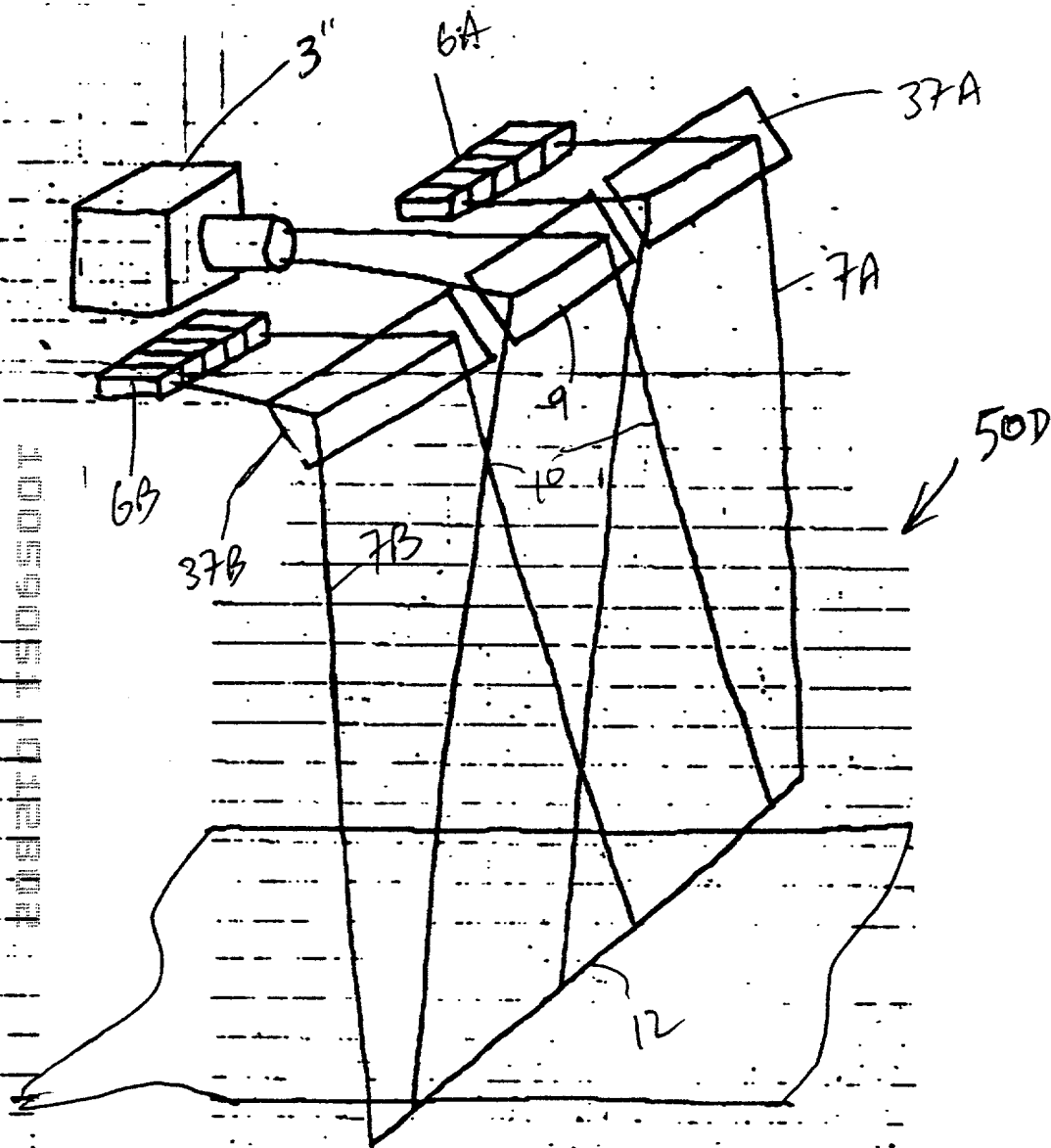


FIG. 361



203270" T506500T

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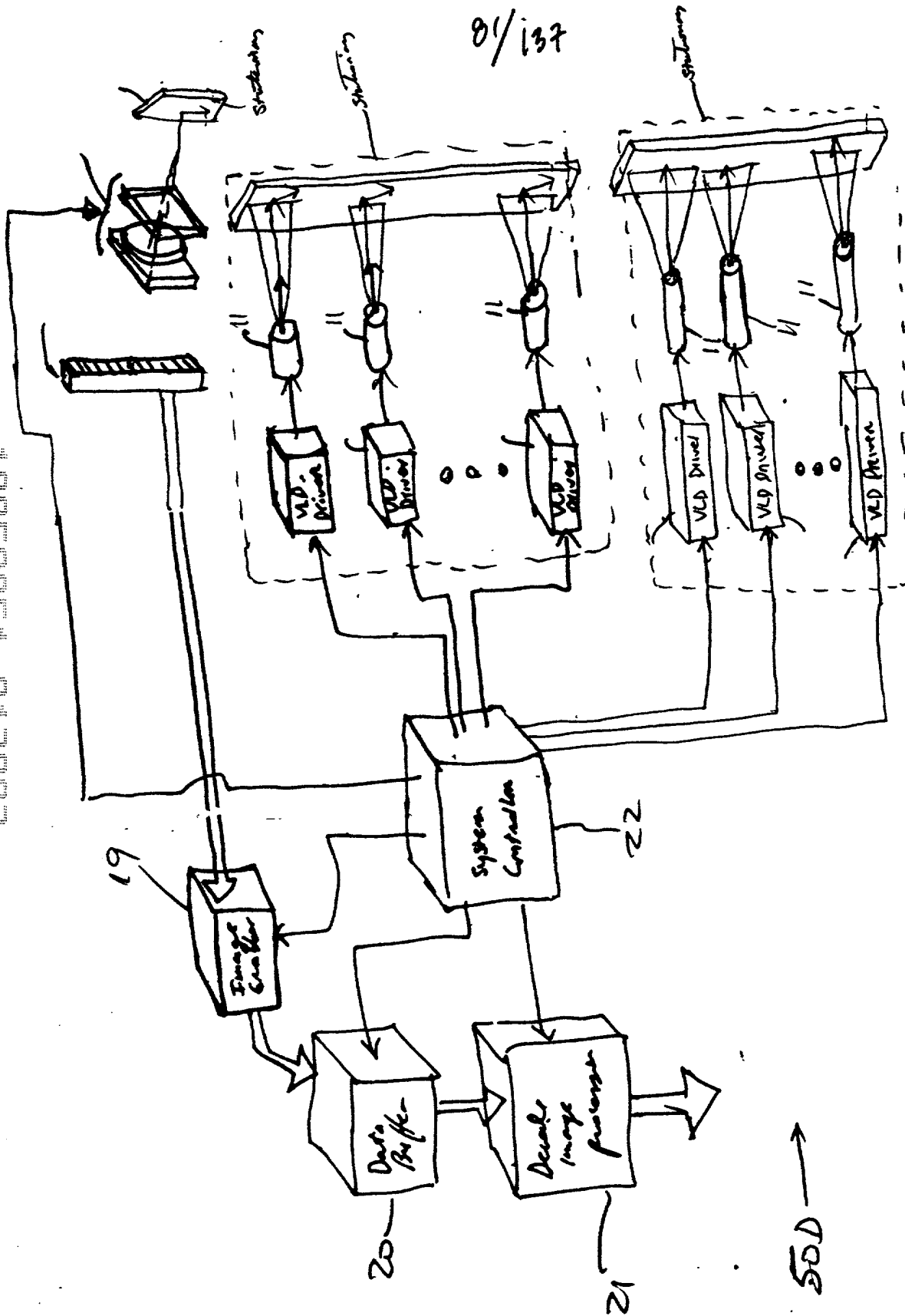


FIG. 362

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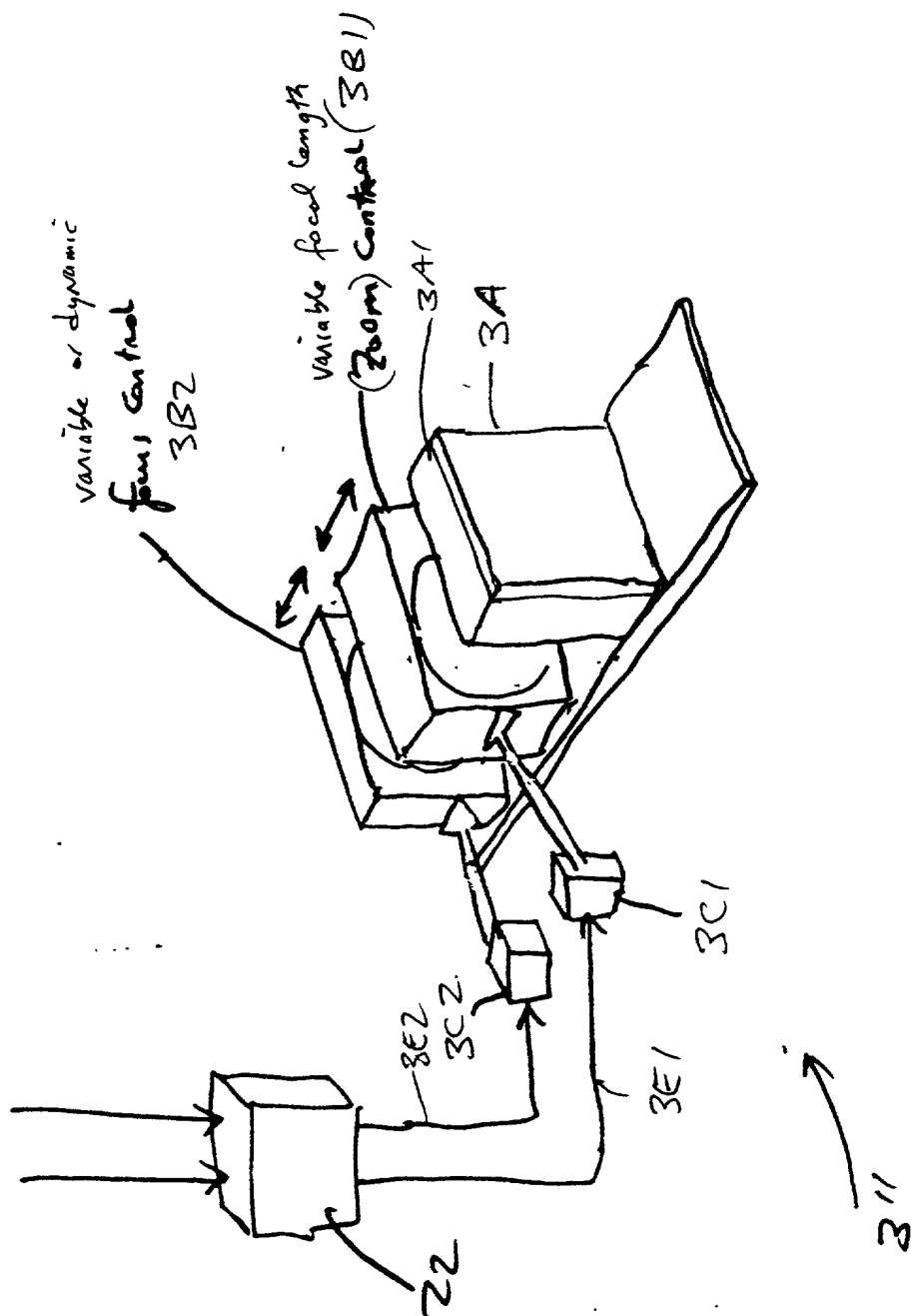


FIG. 393

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20221015065001

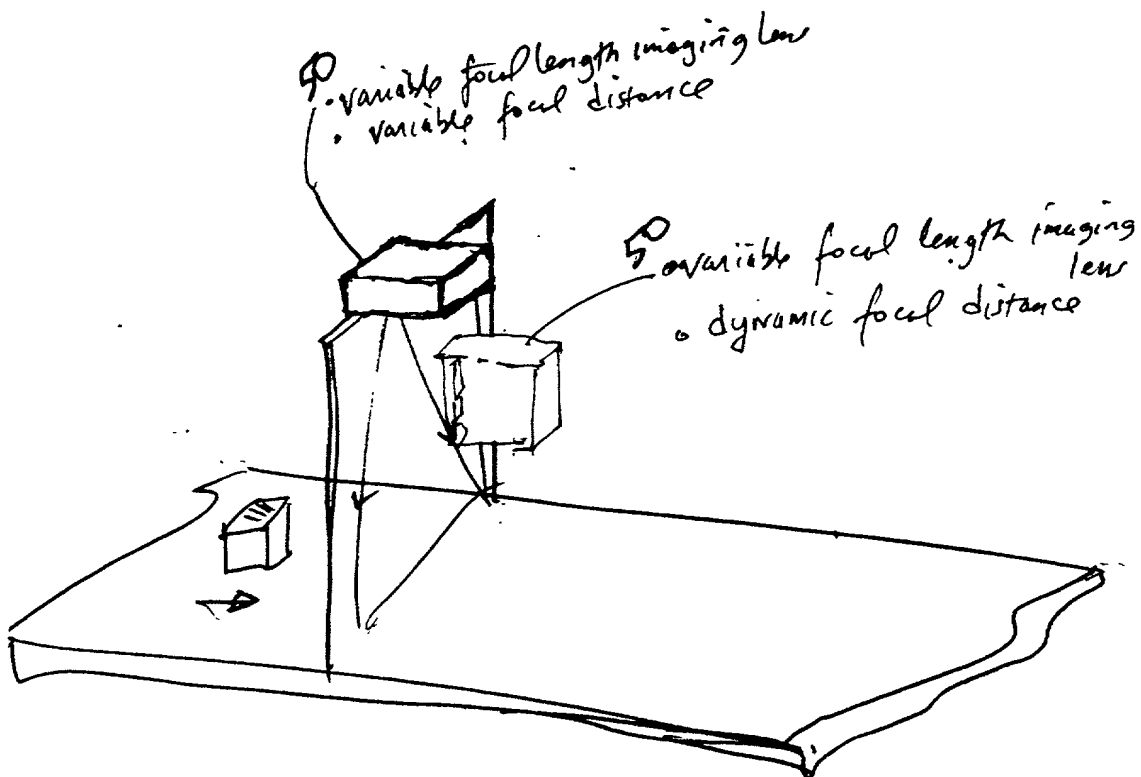
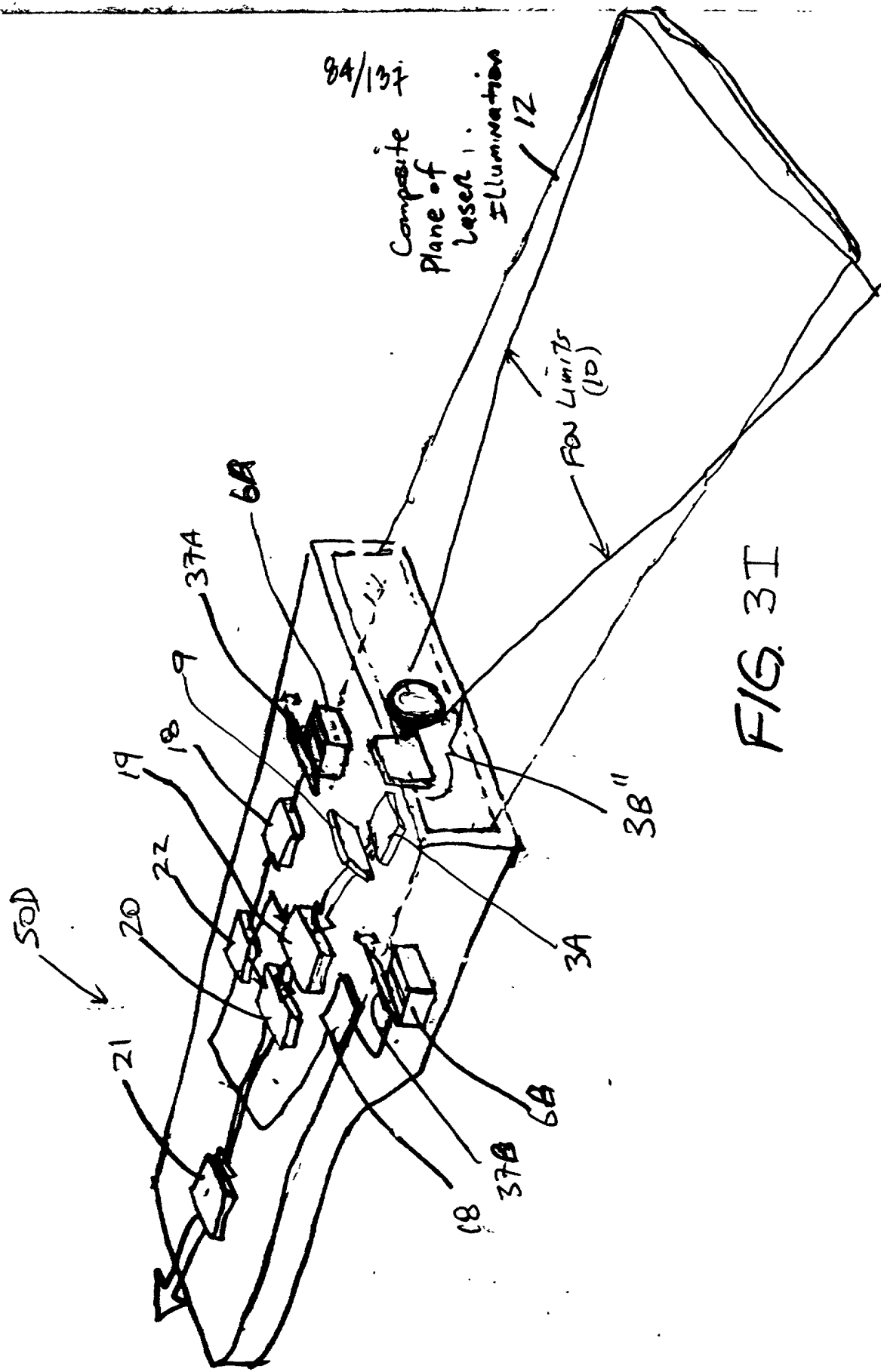


FIG. 3H



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Composite  
Plane of  
Laser  
Illumination

FOV Limits  
(10)

FIG. 3I

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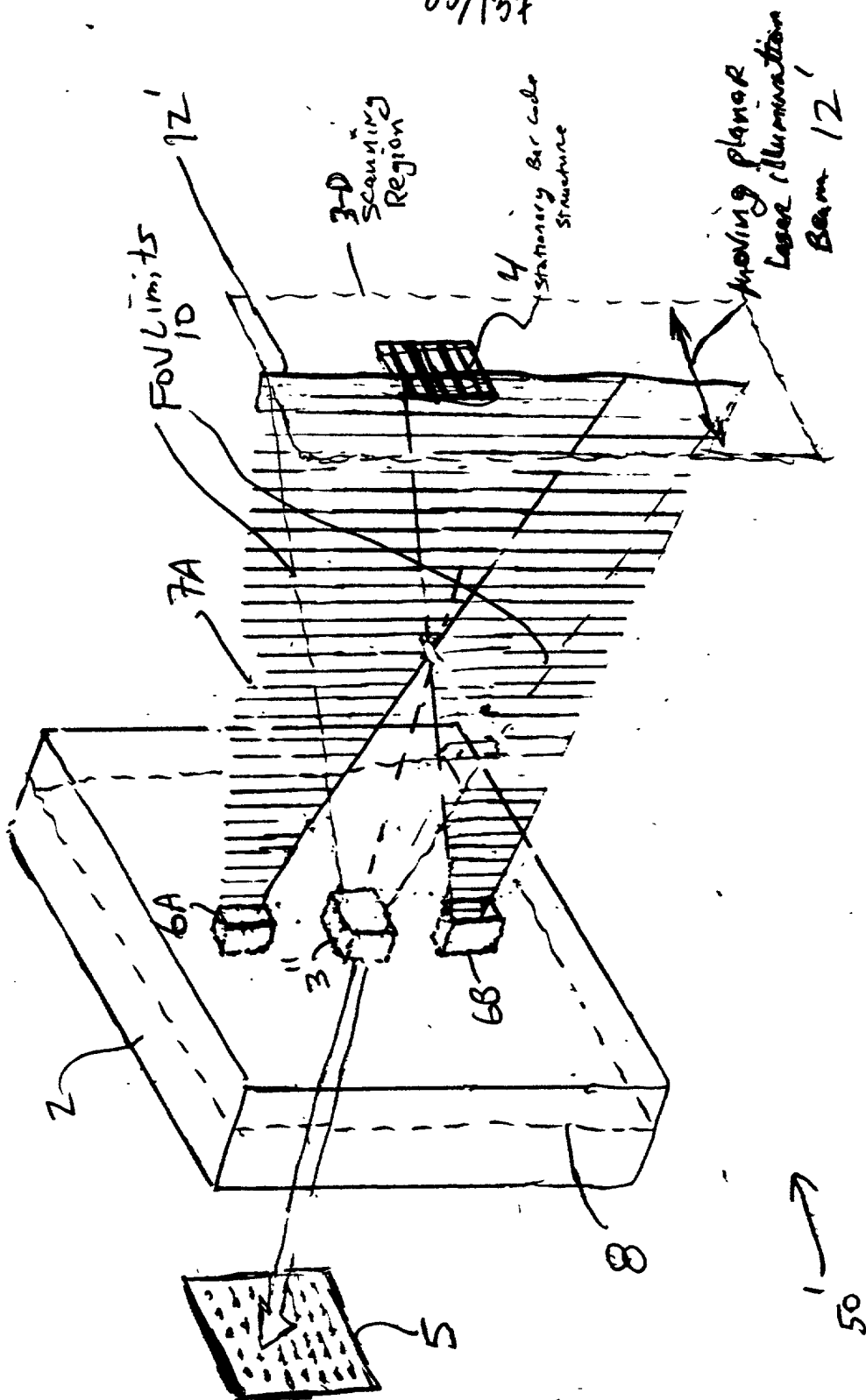


FIG. 3J1

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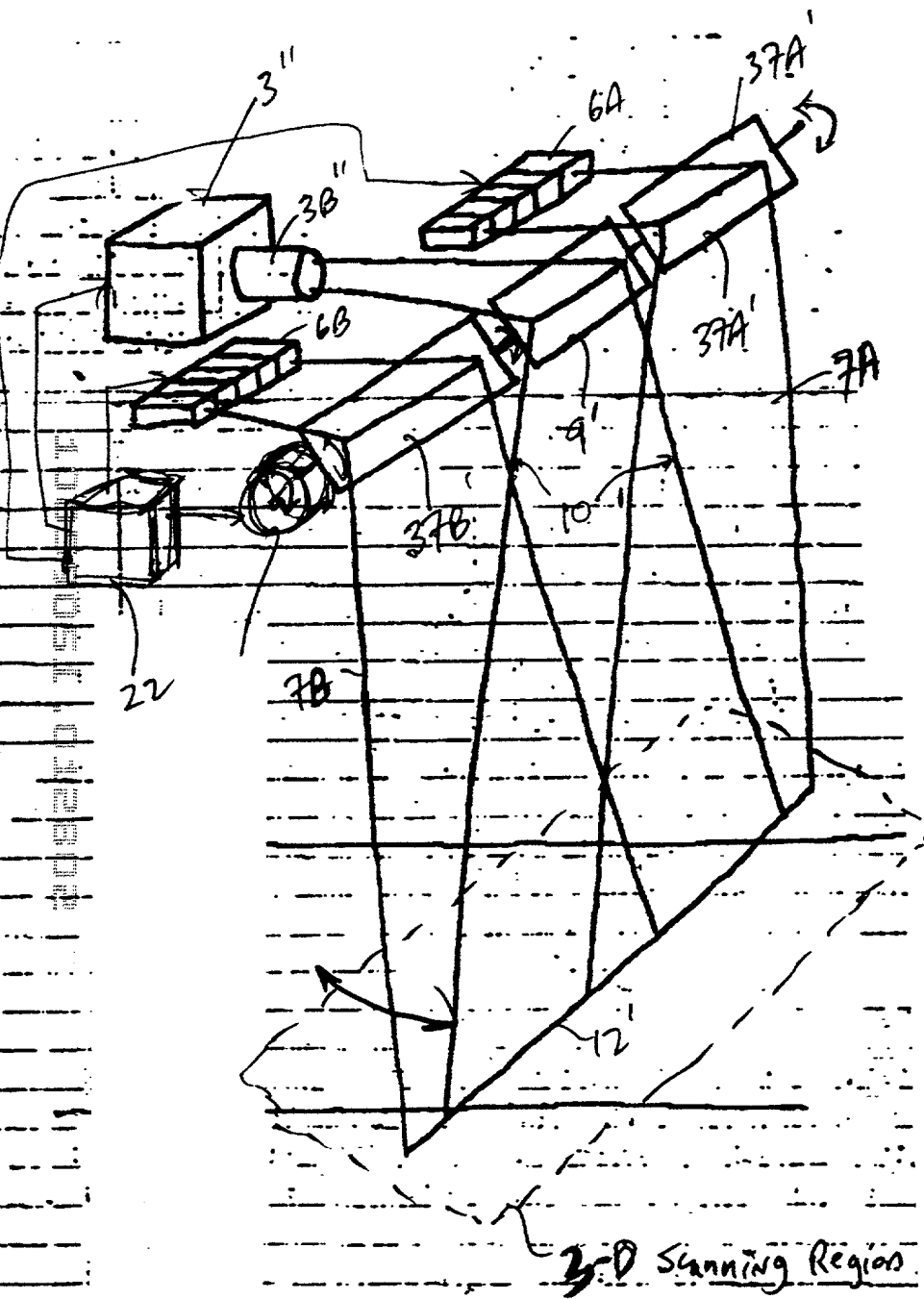
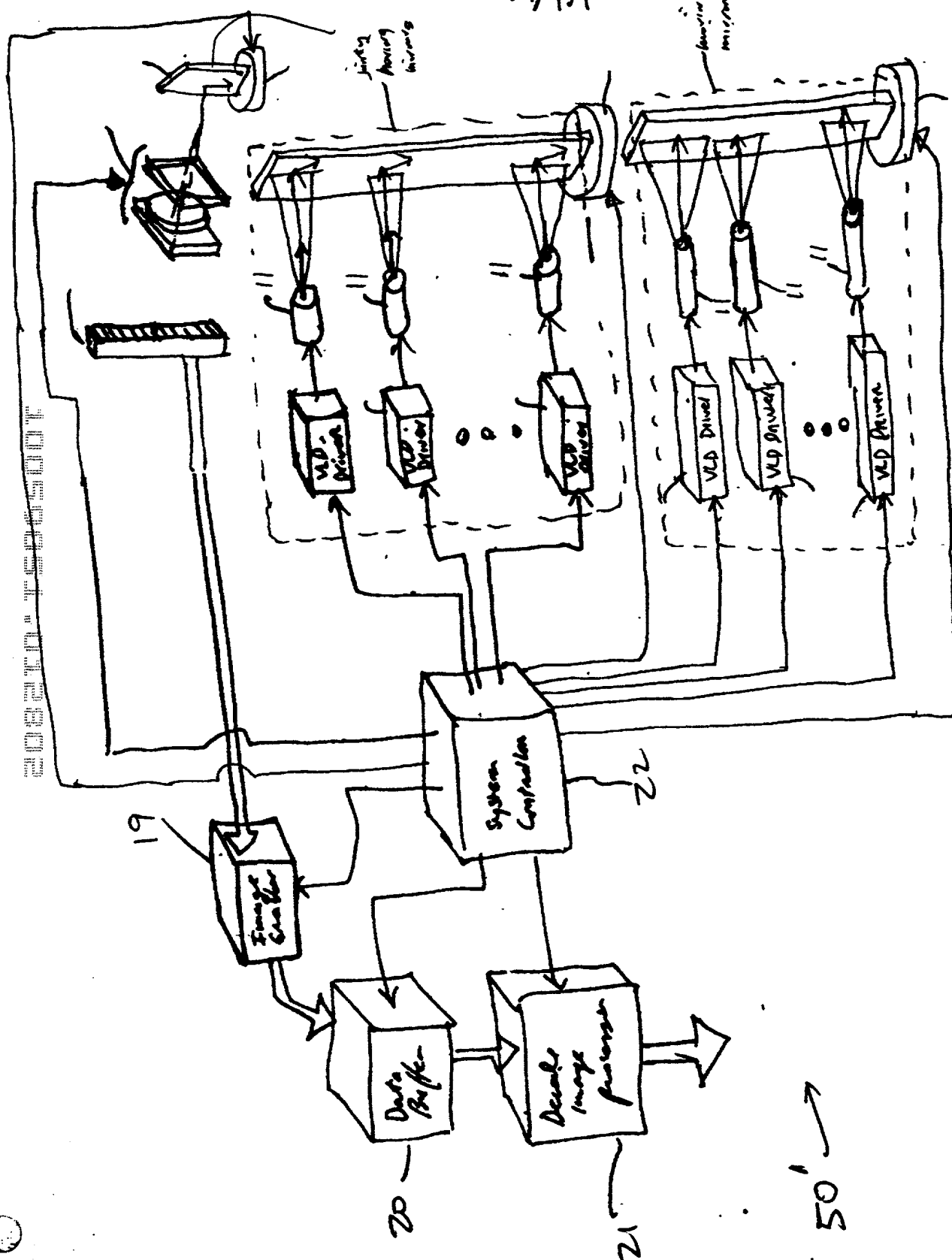


FIG. 3J2

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|  | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 | 2346 | 2347 | 2348 | 2349 | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 2358 | 2359 | 2360 | 2361 | 2362 | 2363 | 2364 | 2365 | 2366 | 2367 | 2368 | 2369 | 2370 | 2371 | 2372 | 2373 | 2374 | 2375 | 2376 | 2377 | 2378 | 2379 | 2380 | 2381 | 2382 | 2383 | 2384 | 2385 | 2386 | 2387 | 2388 | 2389 | 2390 | 2391 | 2392 | 2393 | 2394 | 2395 | 2396 | 2397 | 2398 | 2399 | 2400 | 2401 | 2402 | 2403 | 2404 | 2405 | 2406 | 2407 | 2408 | 2409 | 2410 | 2411 | 2412 | 2413 | 2414 | 2415 | 2416 | 2417 | 2418 | 2419 | 2420 | 2421 | 2422 | 2 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|

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203210" T506500T

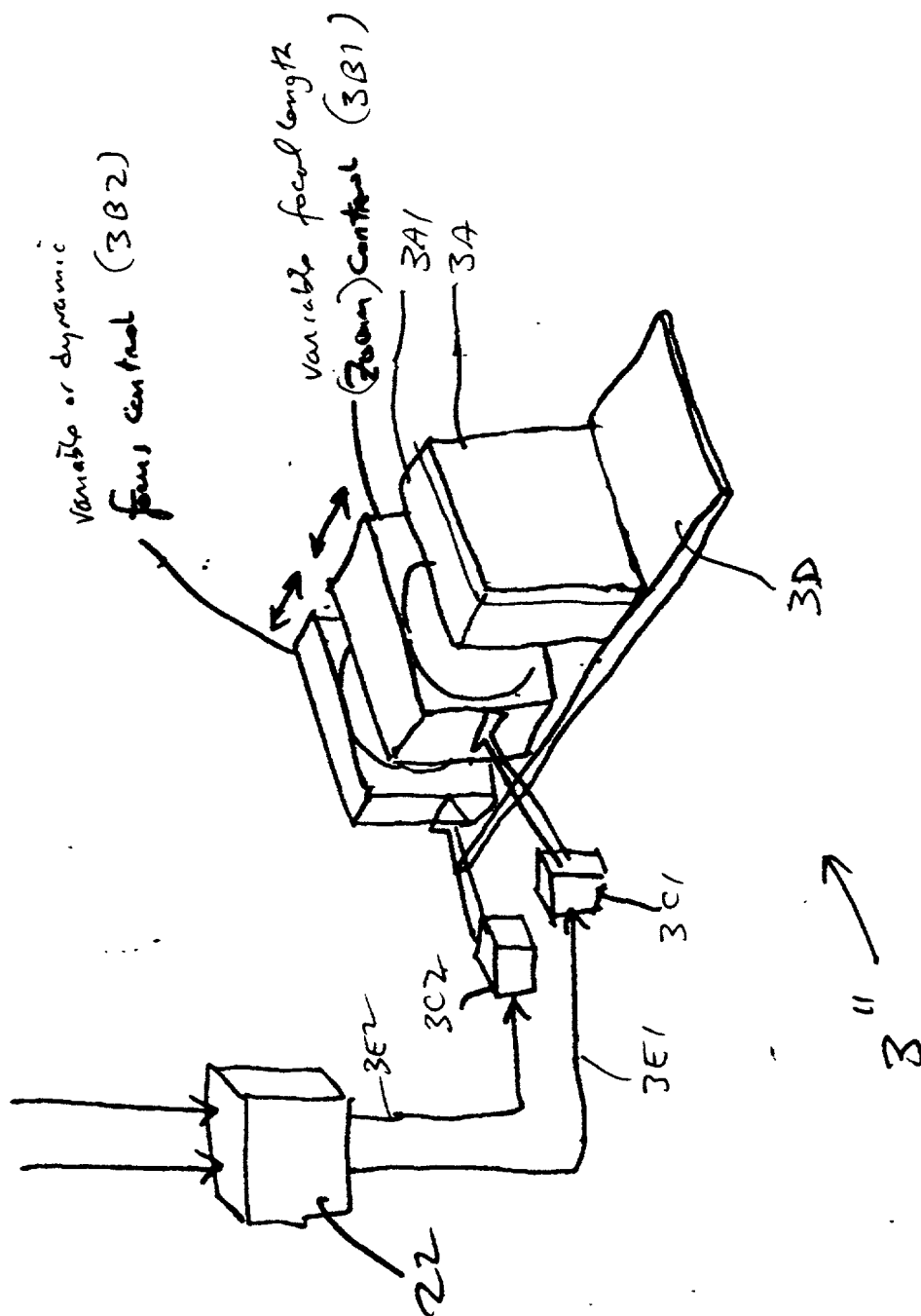
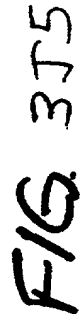


FIG. 354





- hands-held scanner
- presentation scanner

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200207505500F

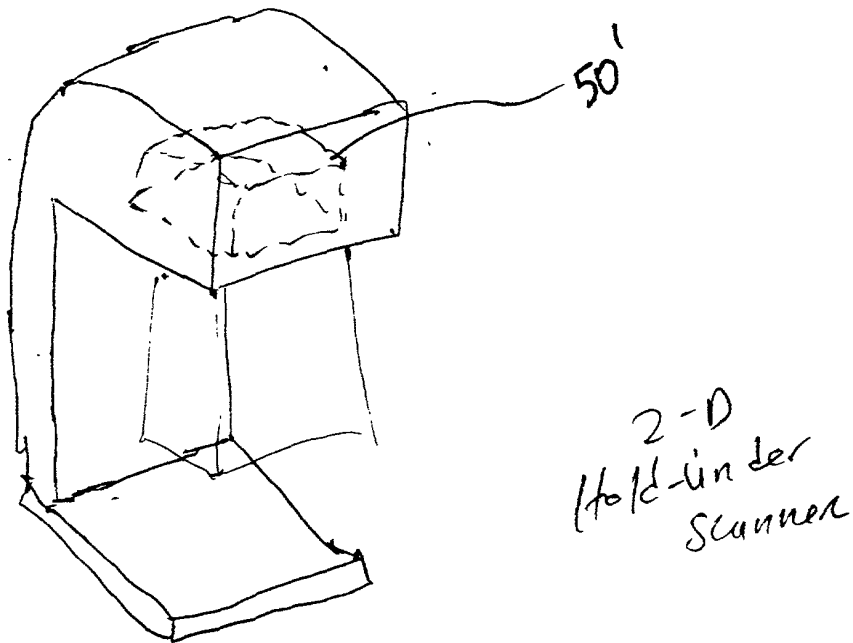


FIG. 315

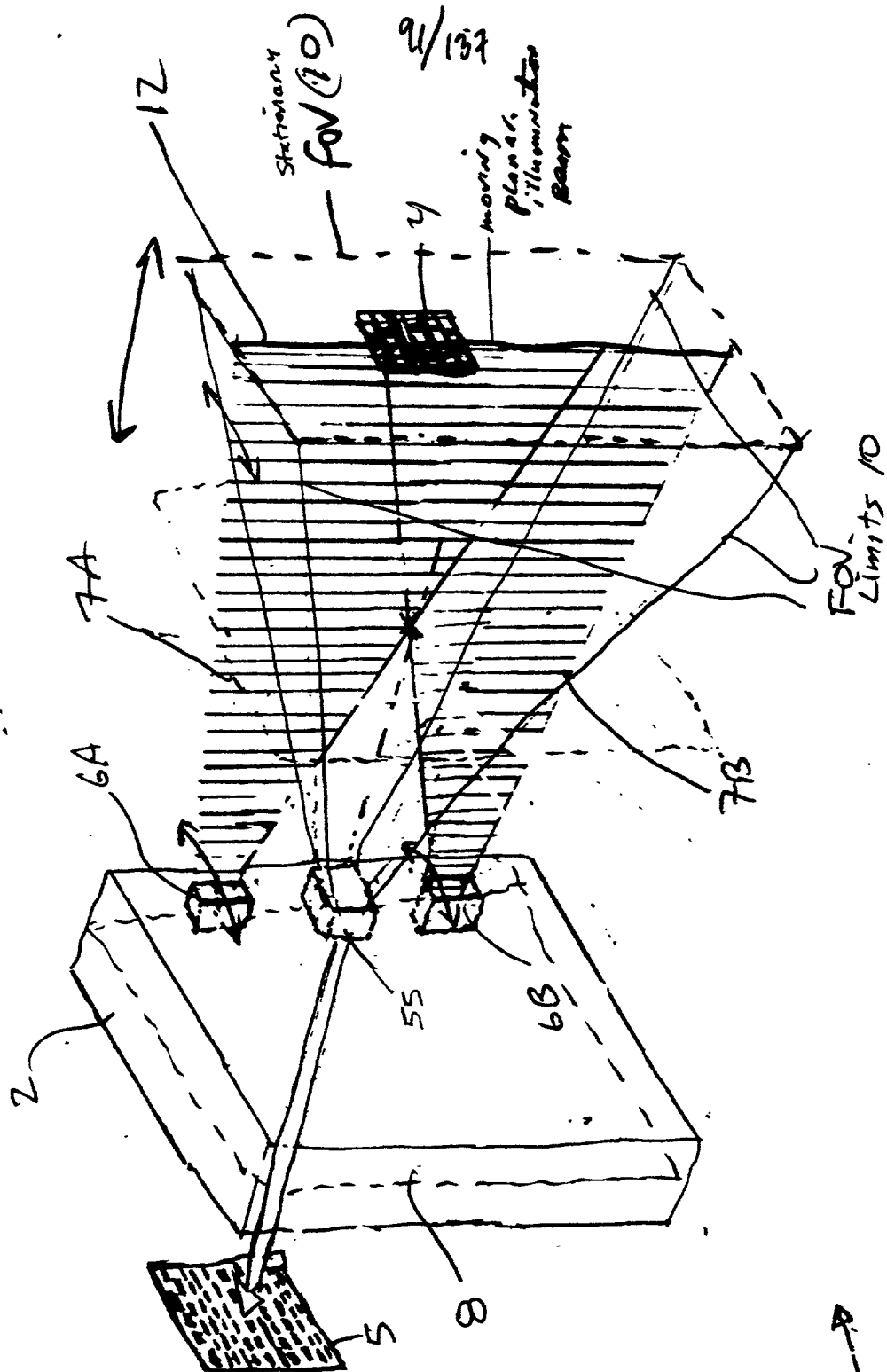
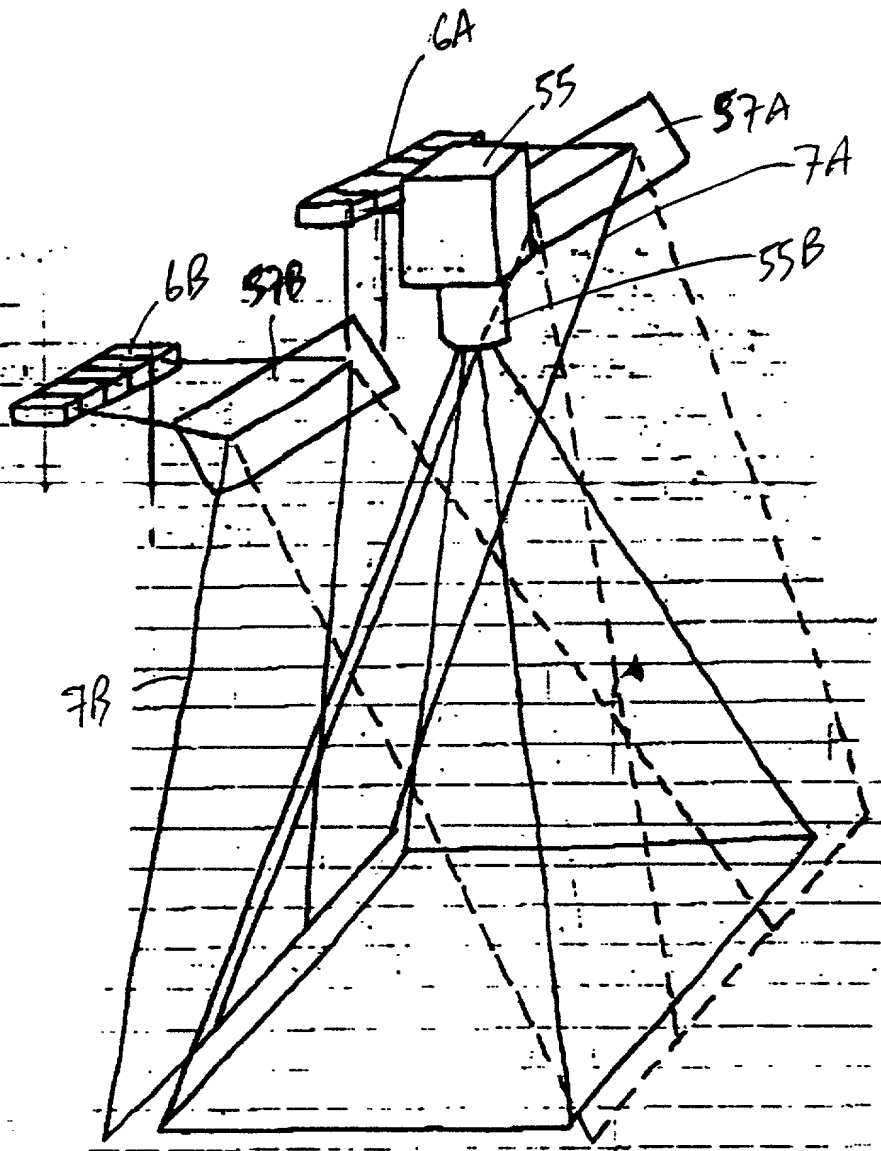


FIG 4A

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60A

FIG. 4B1

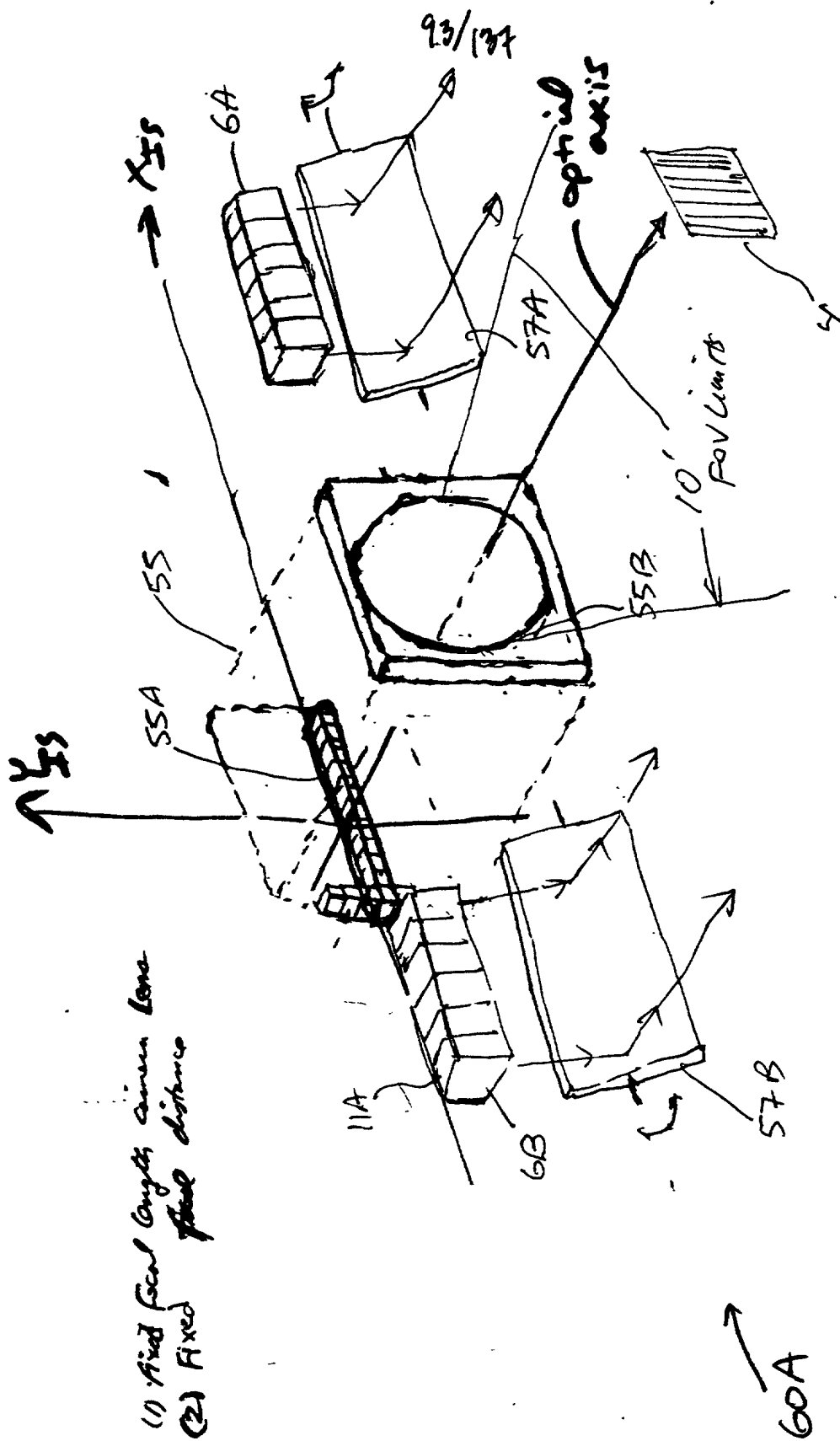


FIG. 4BZ

- (1) Fixed focal length lens
- (2) Fixed field distance

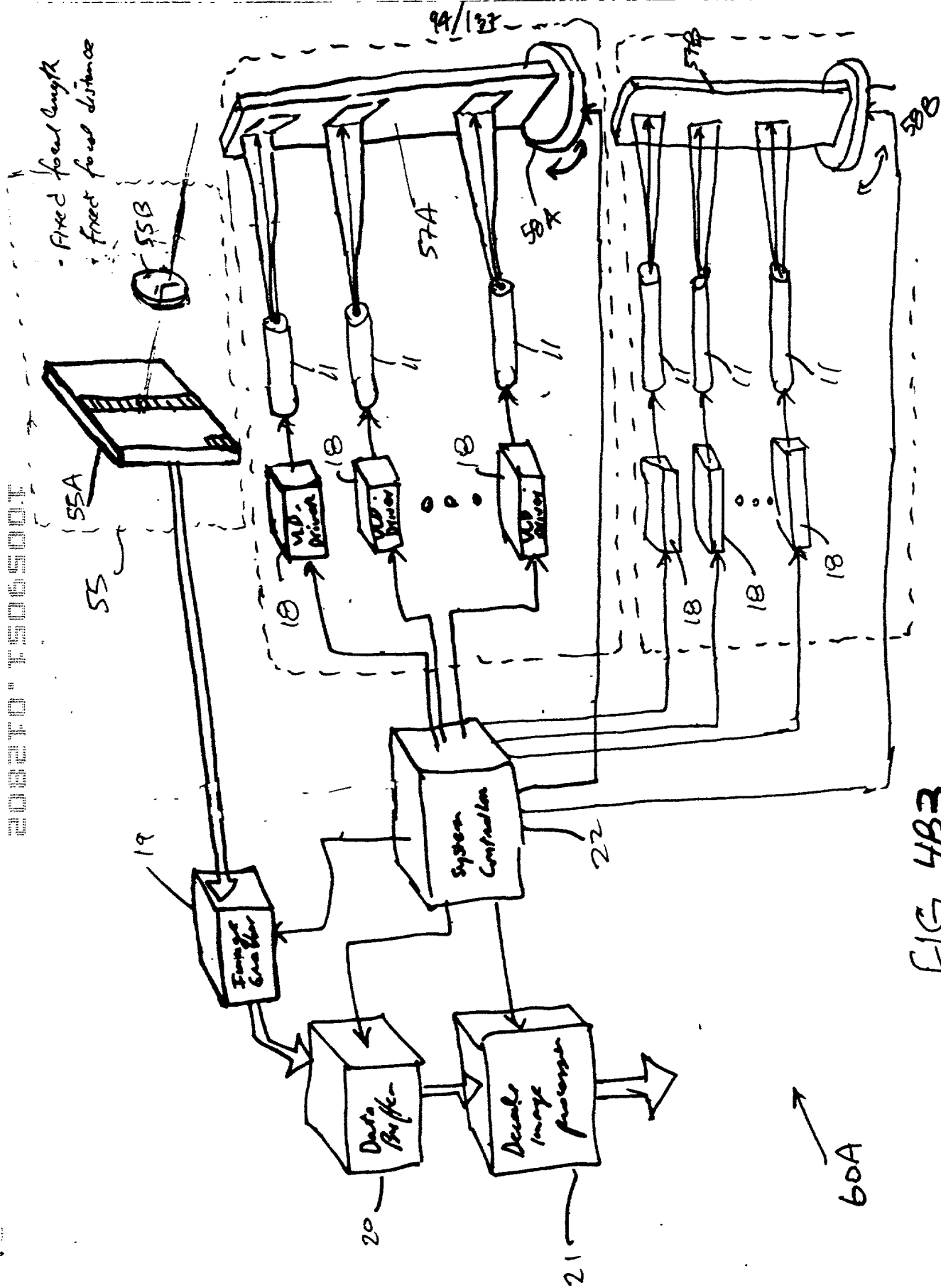


FIG. 4B3

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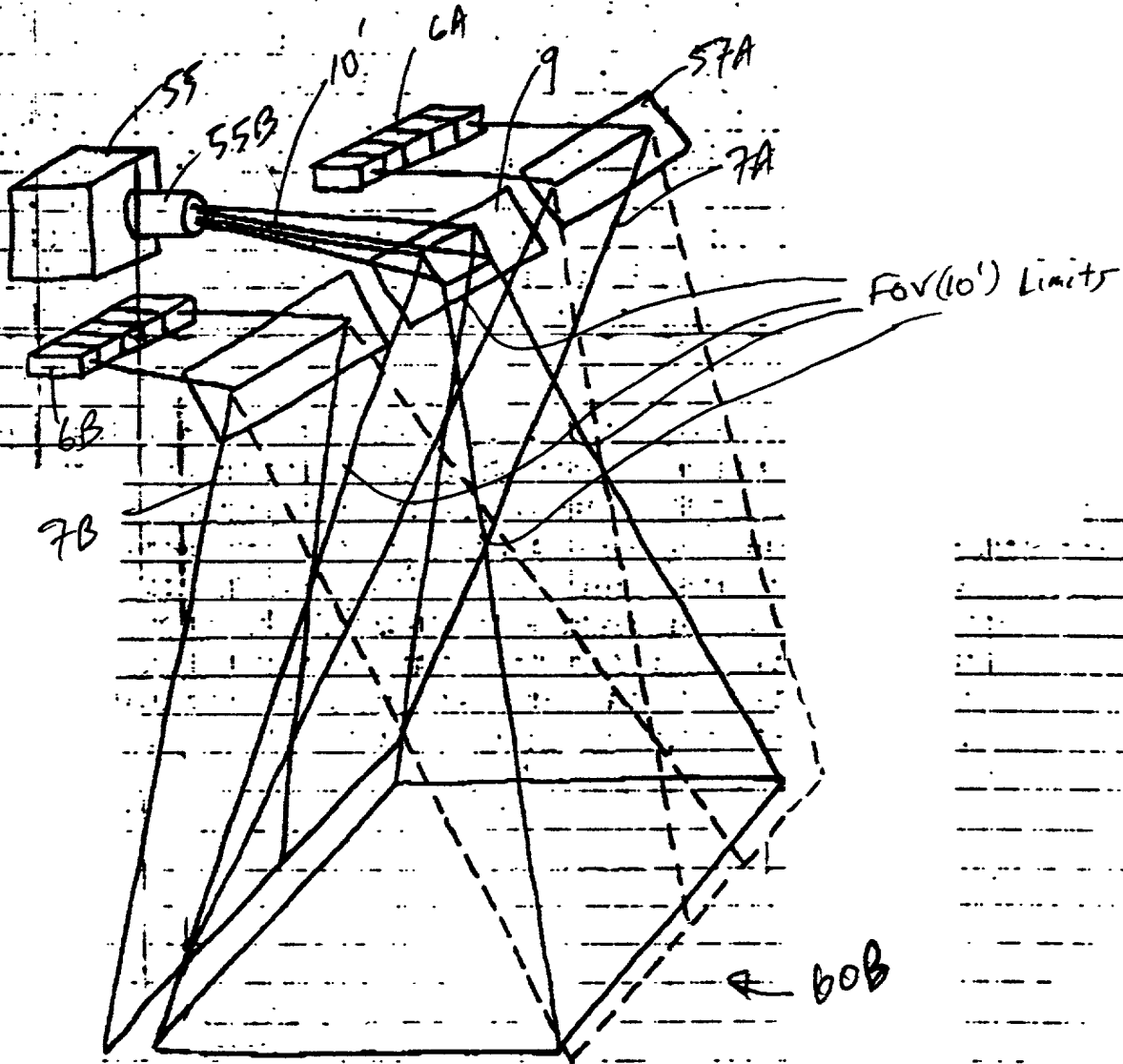


FIG. 4CL

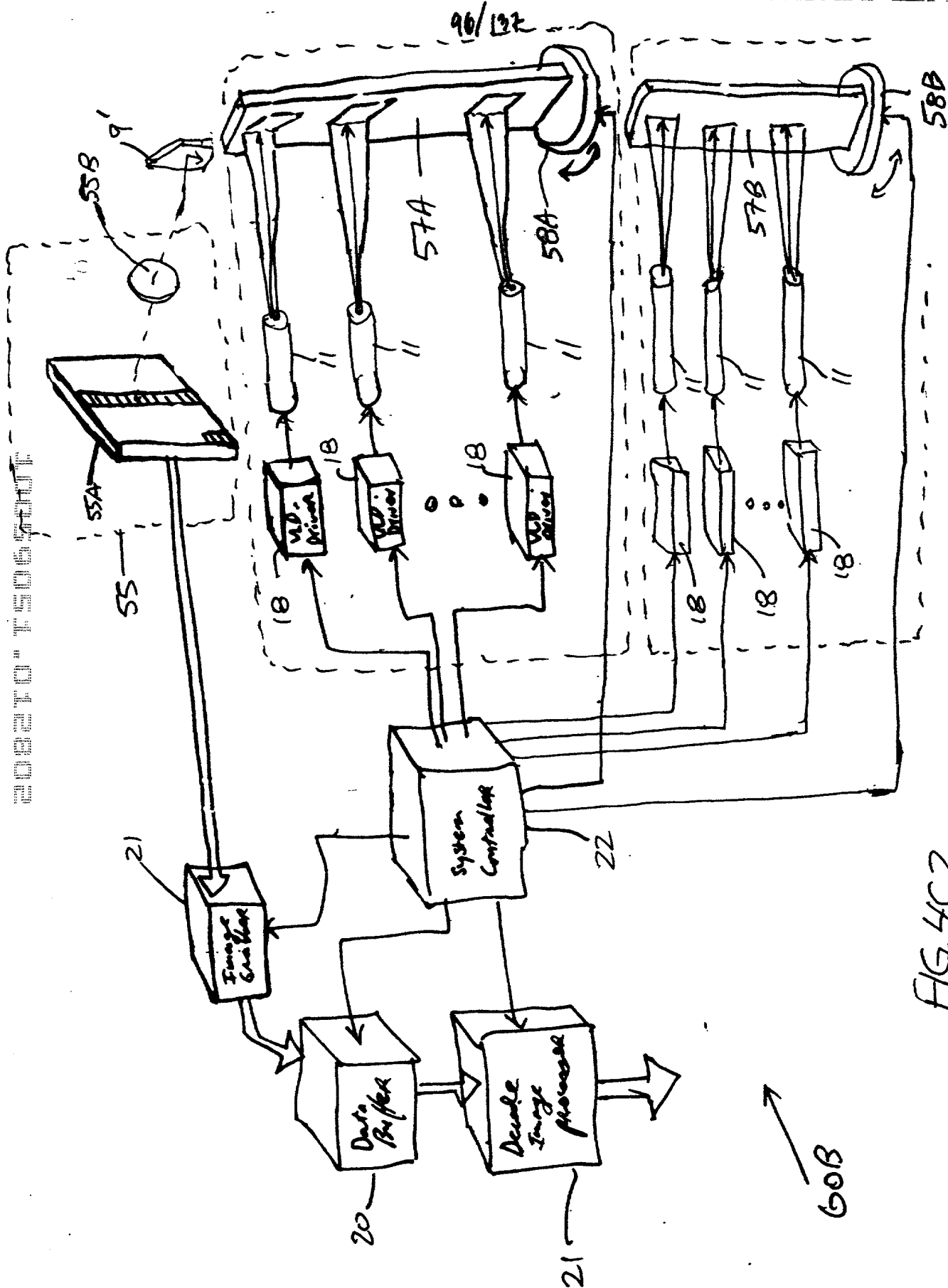


FIG. 4C2



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10059051.012802

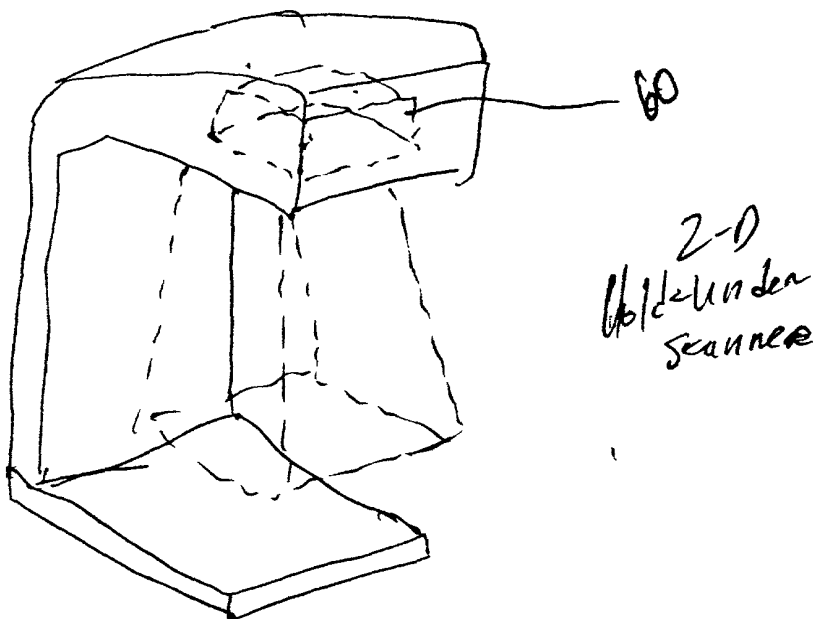


FIG. 4D

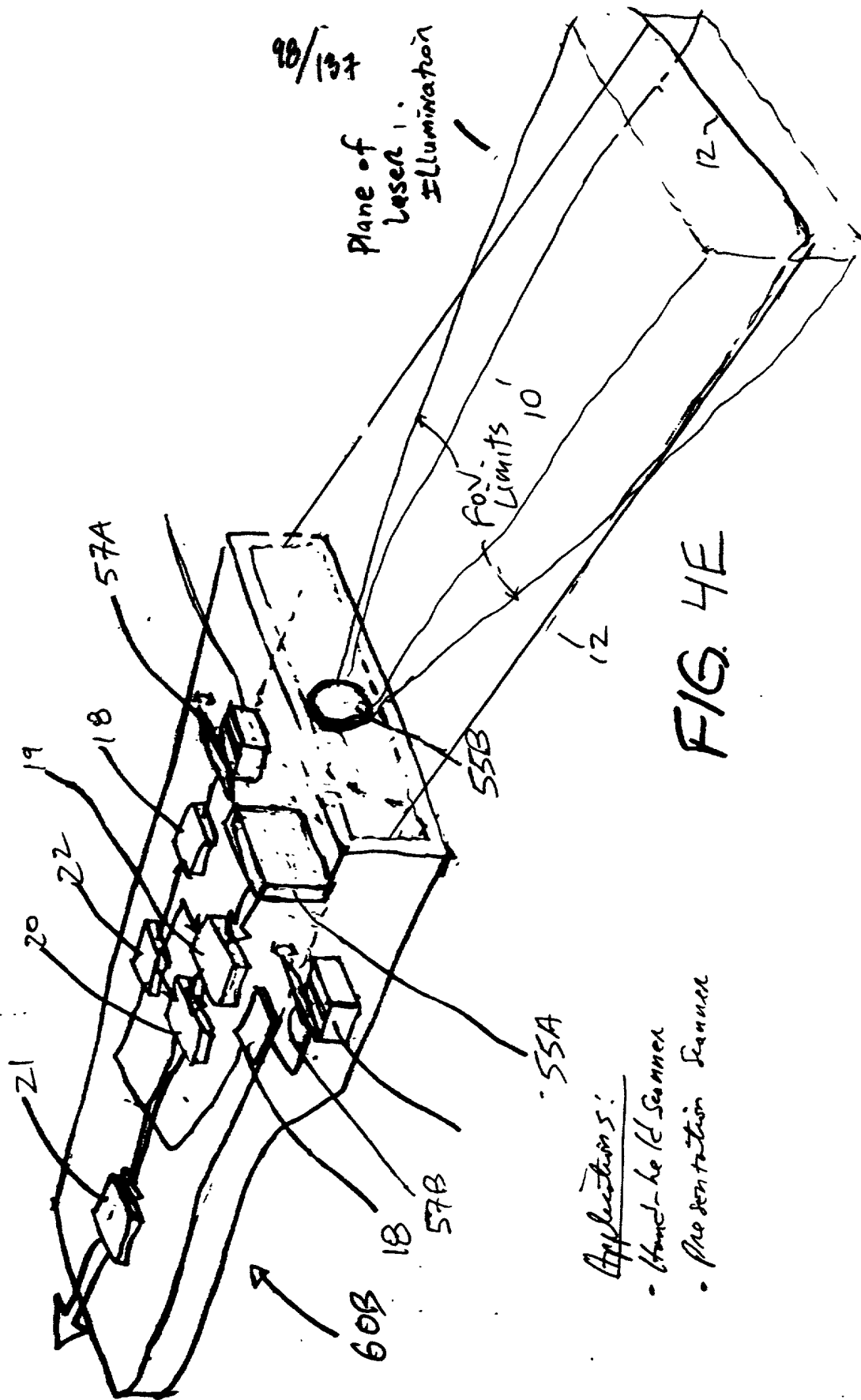


FIG. 4E

Applications:

- Hand-held Scanner
- Presentation Scanner

3

moving  
planar laser  
illumination  
beam

stationary  
fov(10)



AG 5A

2022075055001

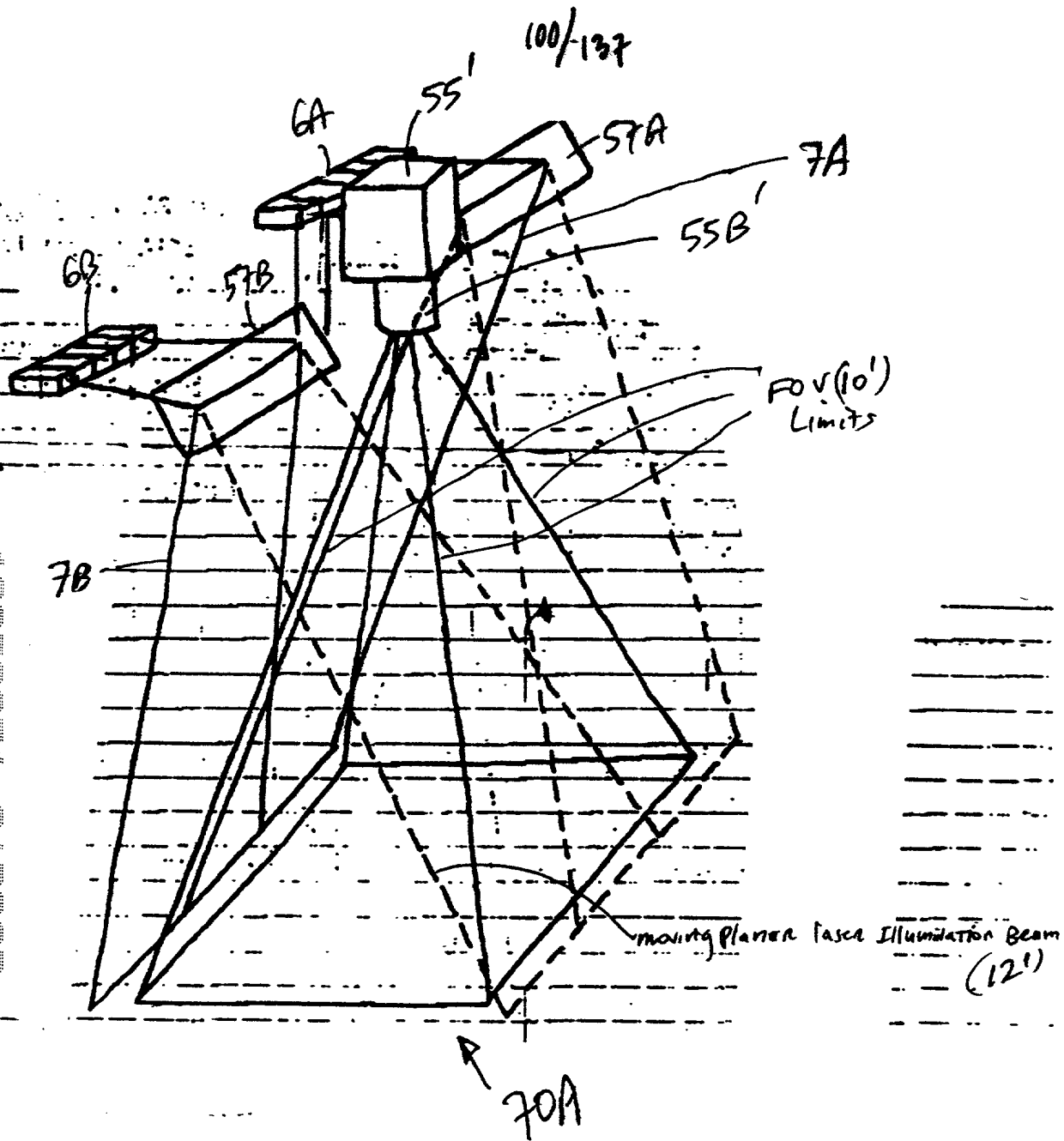


FIG 5B1

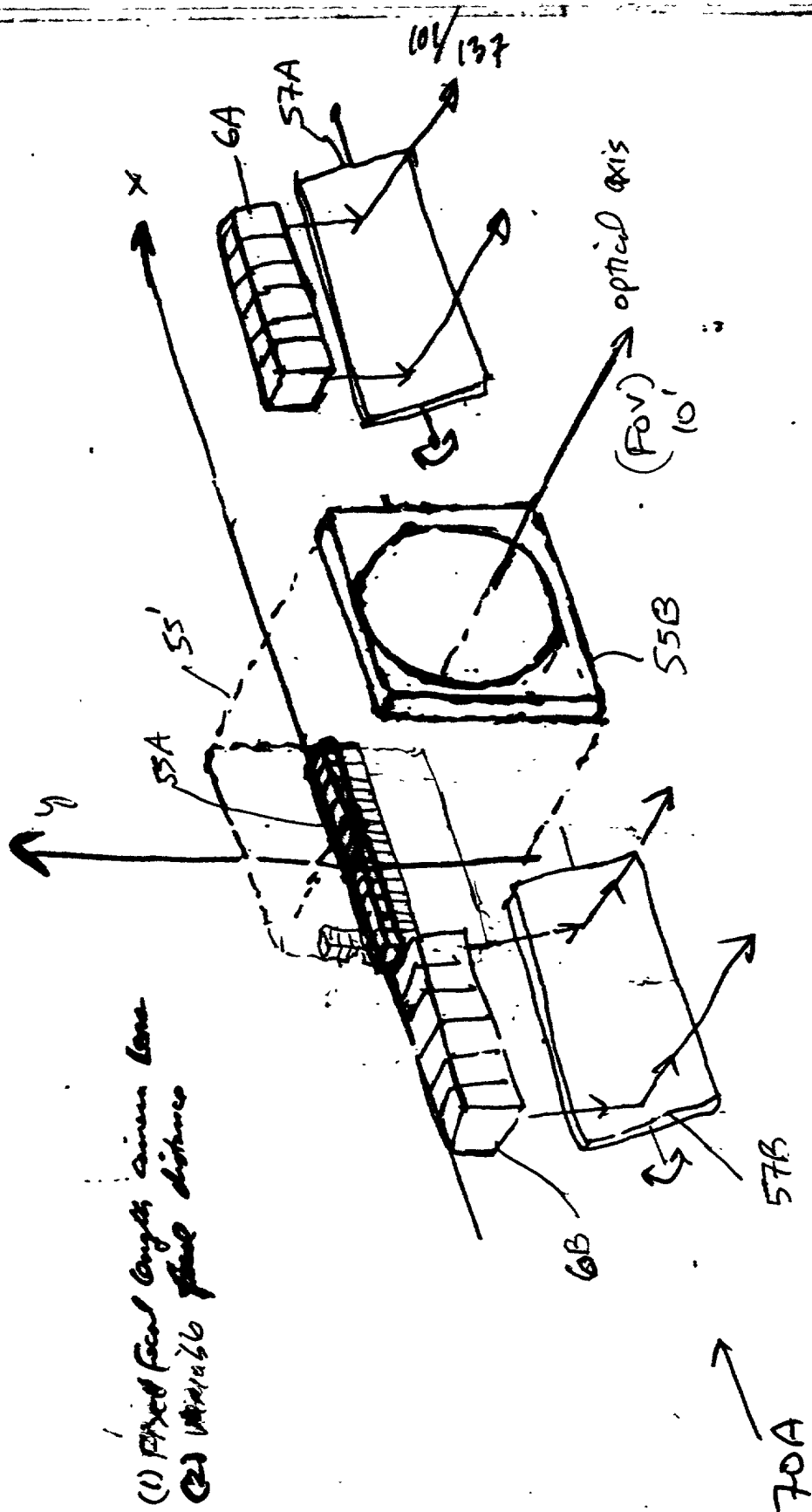
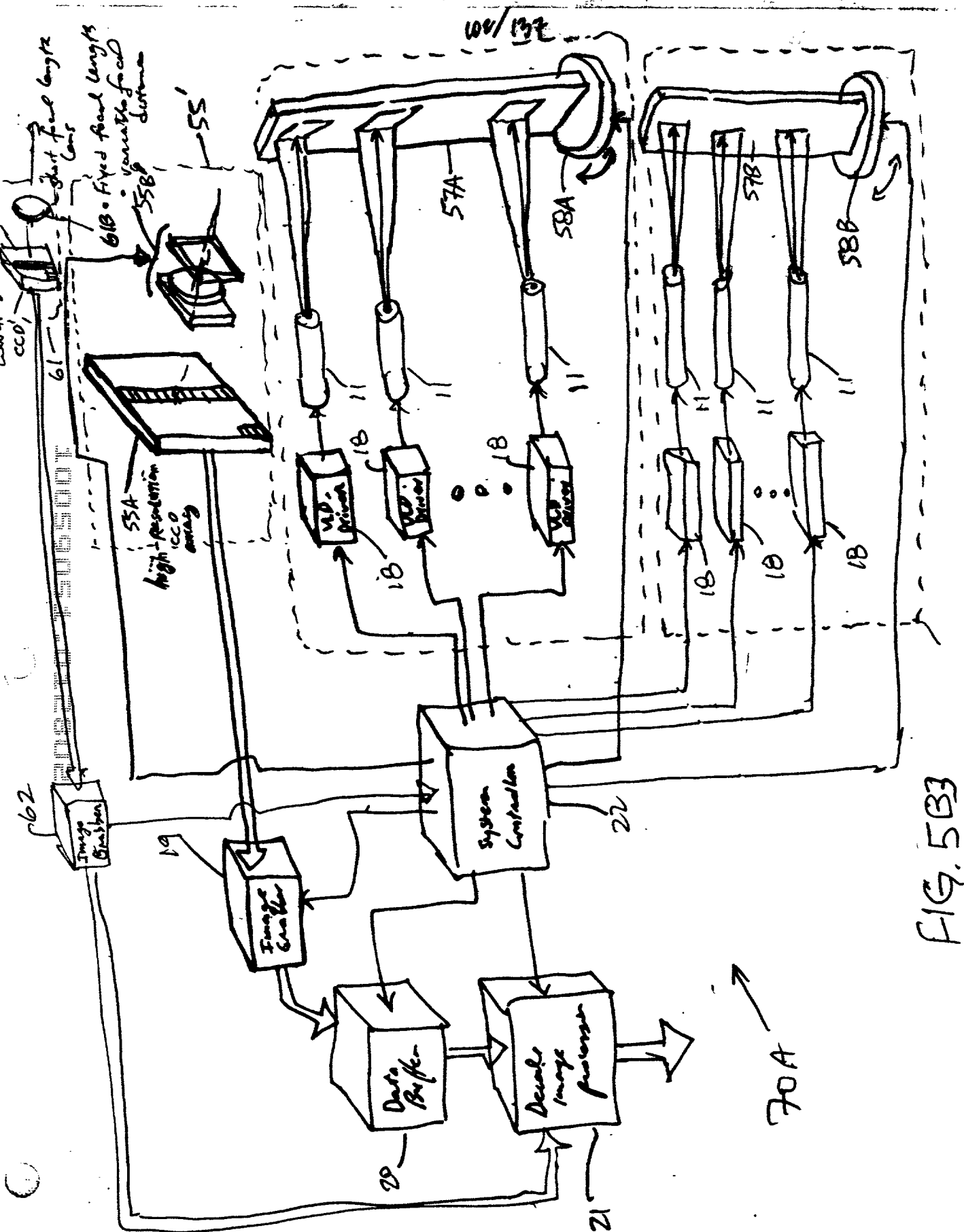
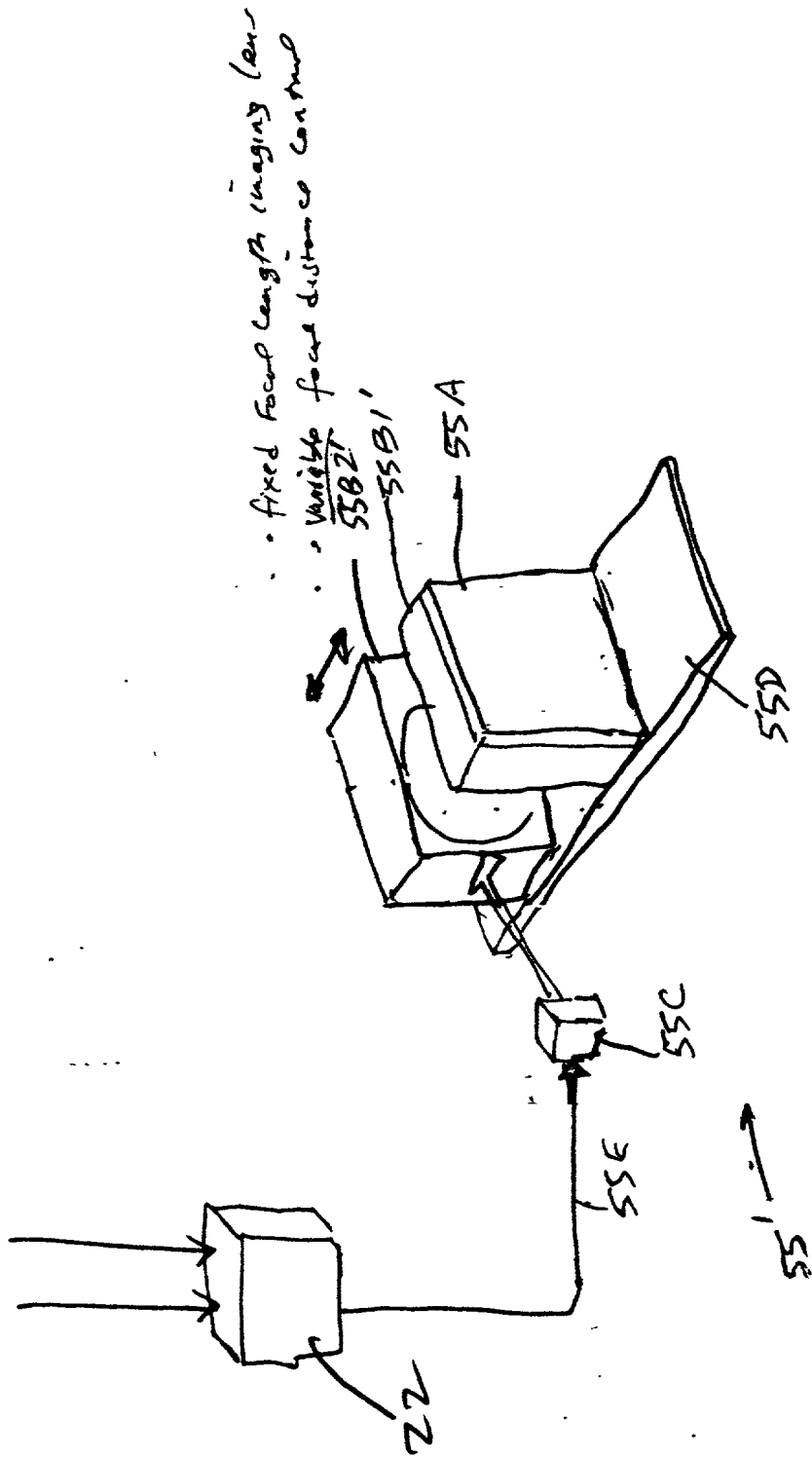


FIG. 5B2



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... Fixed focal length imaging lens  
... Variable focal distance control

FIG. 5B4

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202270"TS05500T

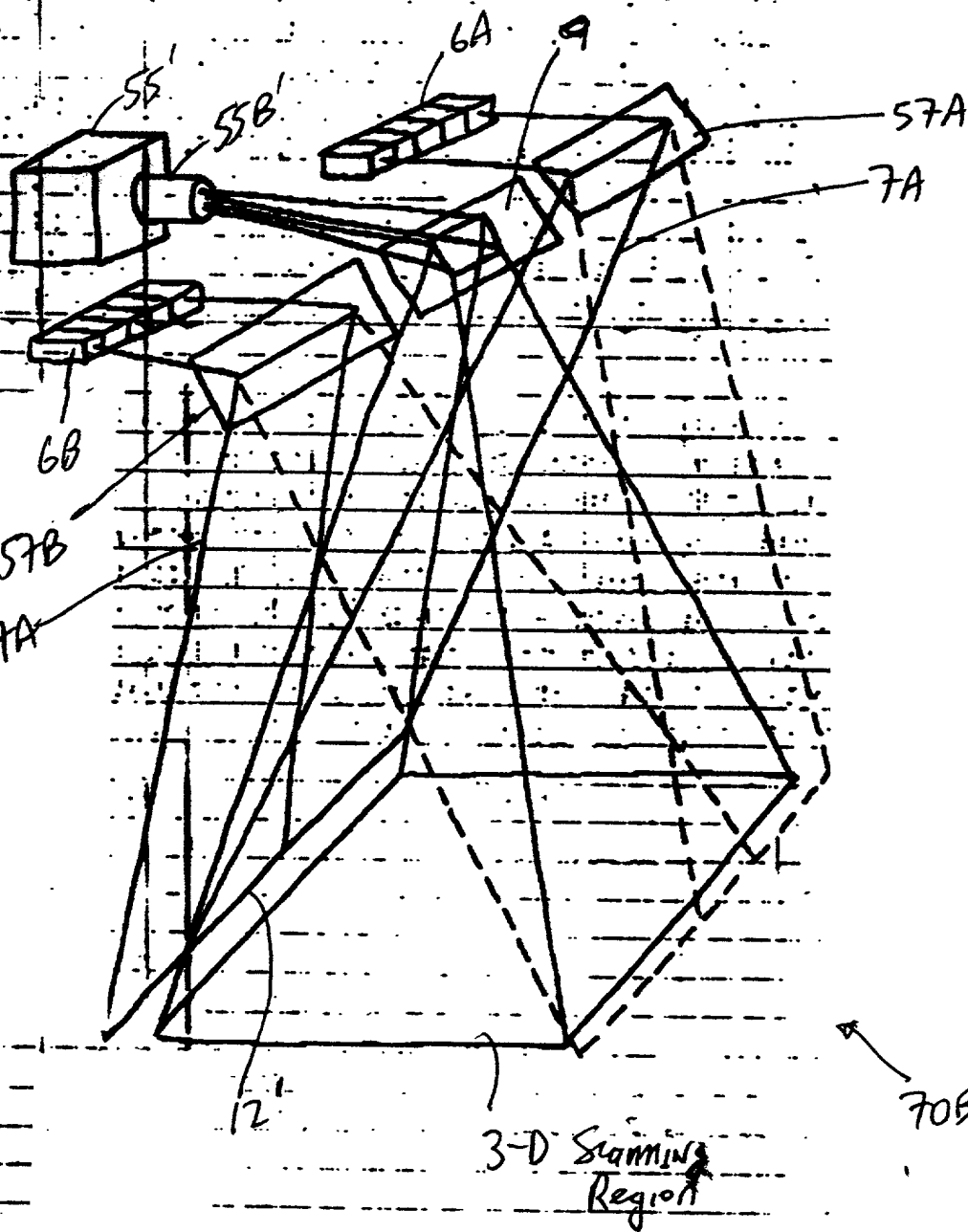


FIG. 5C1



(1) Variable focal lengths camera lens  
(2) Fixed focal distance

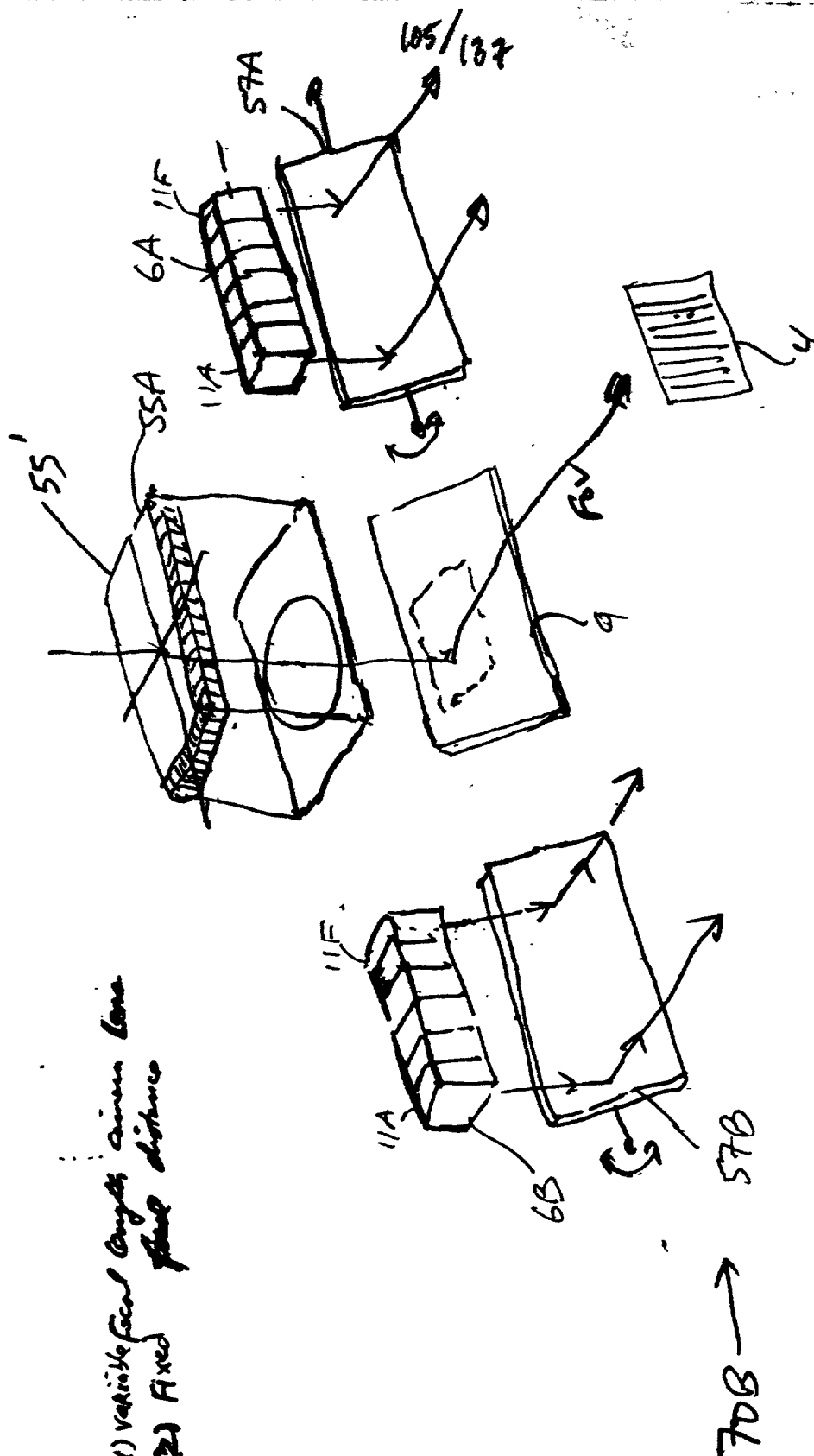


FIG. 5C2

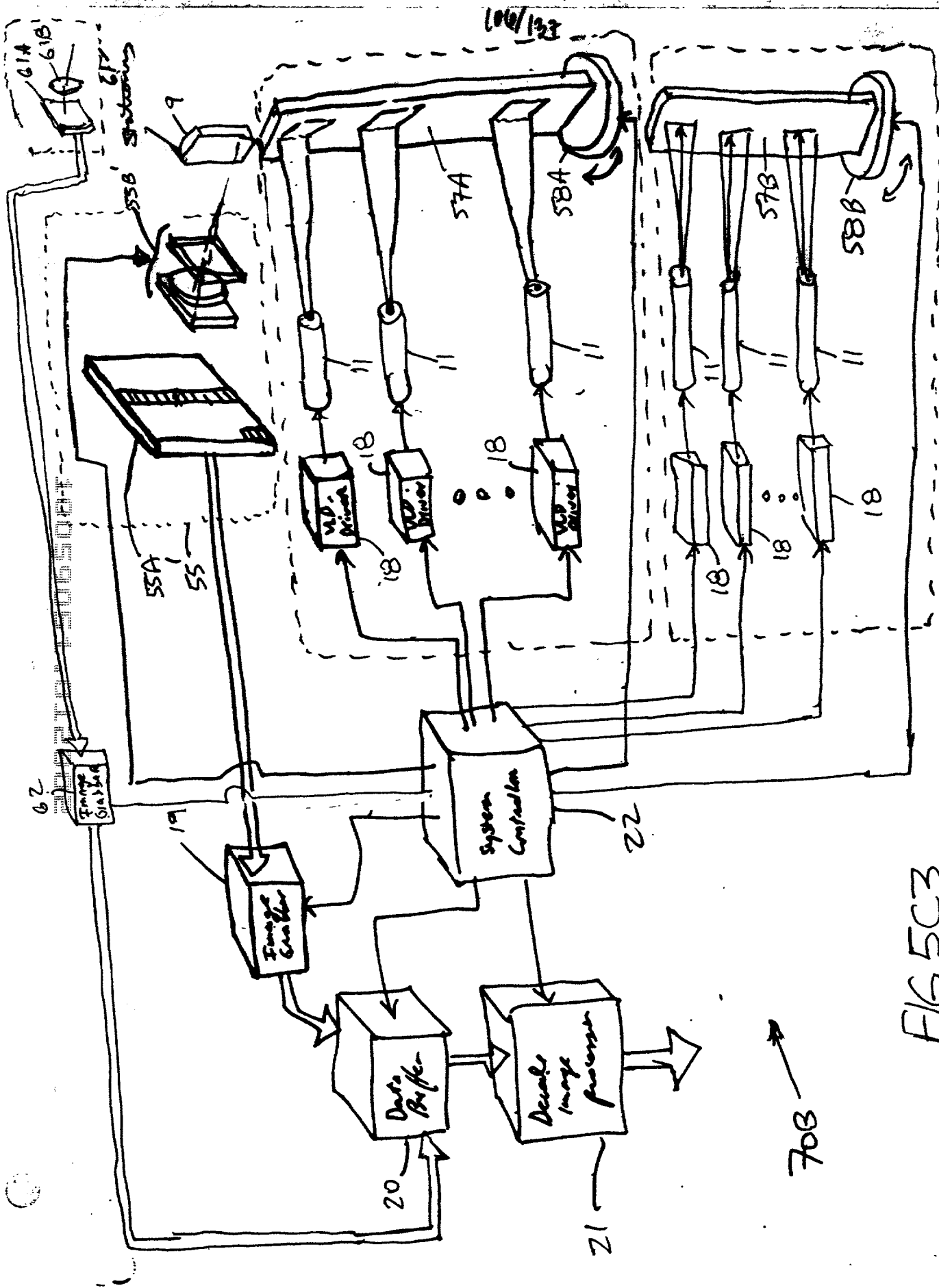


FIG. 5C3

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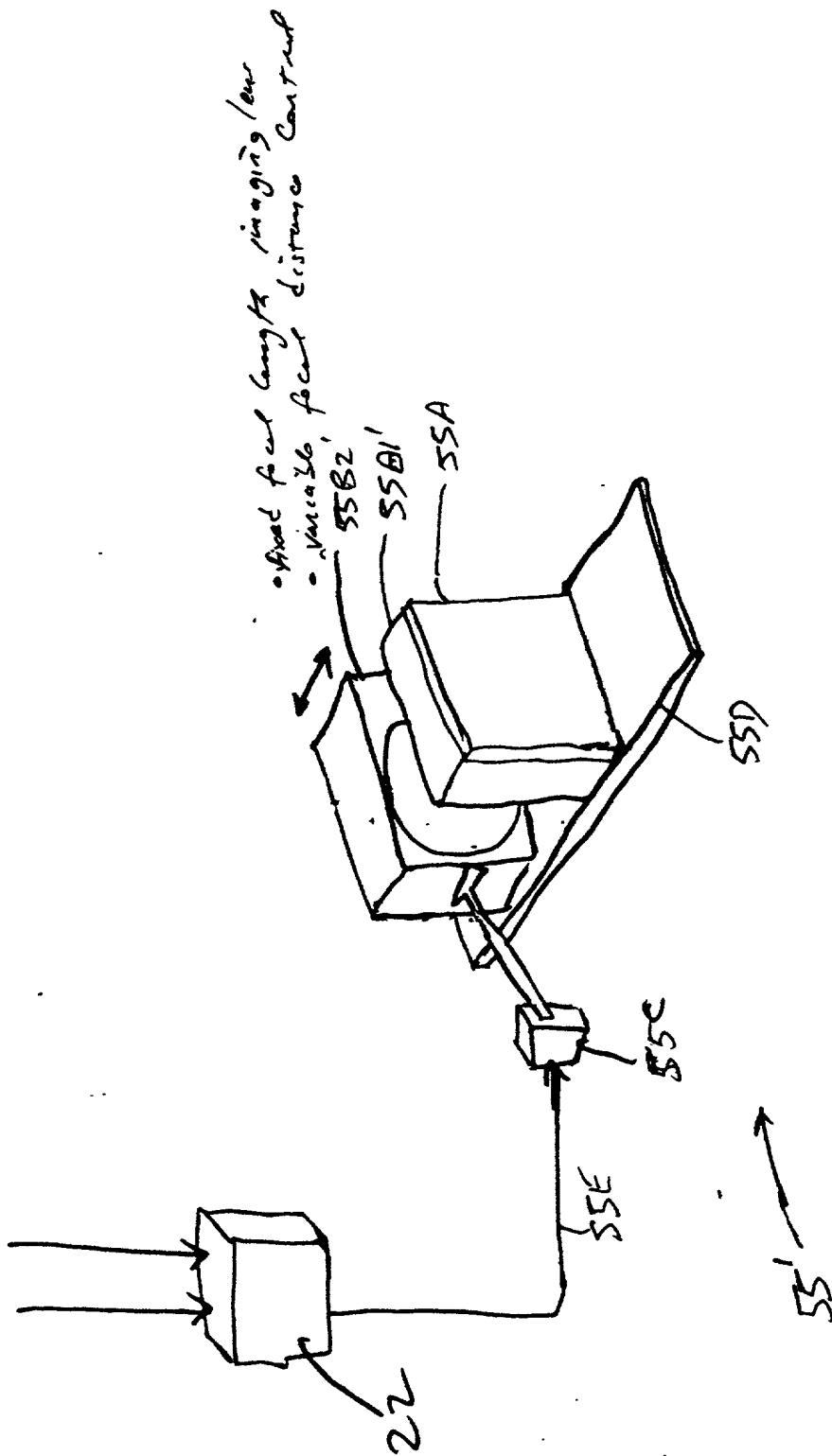


FIG. 5C4

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202207506500T

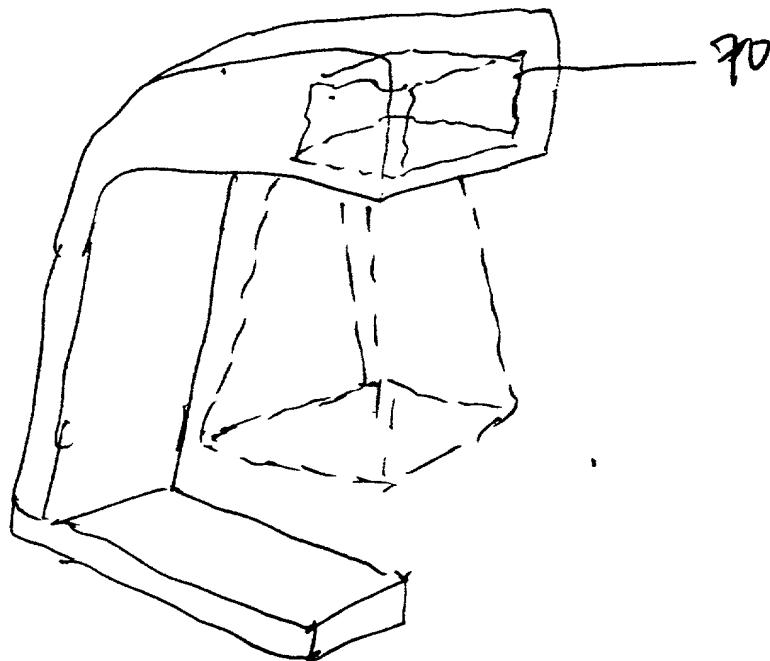


FIG 5D

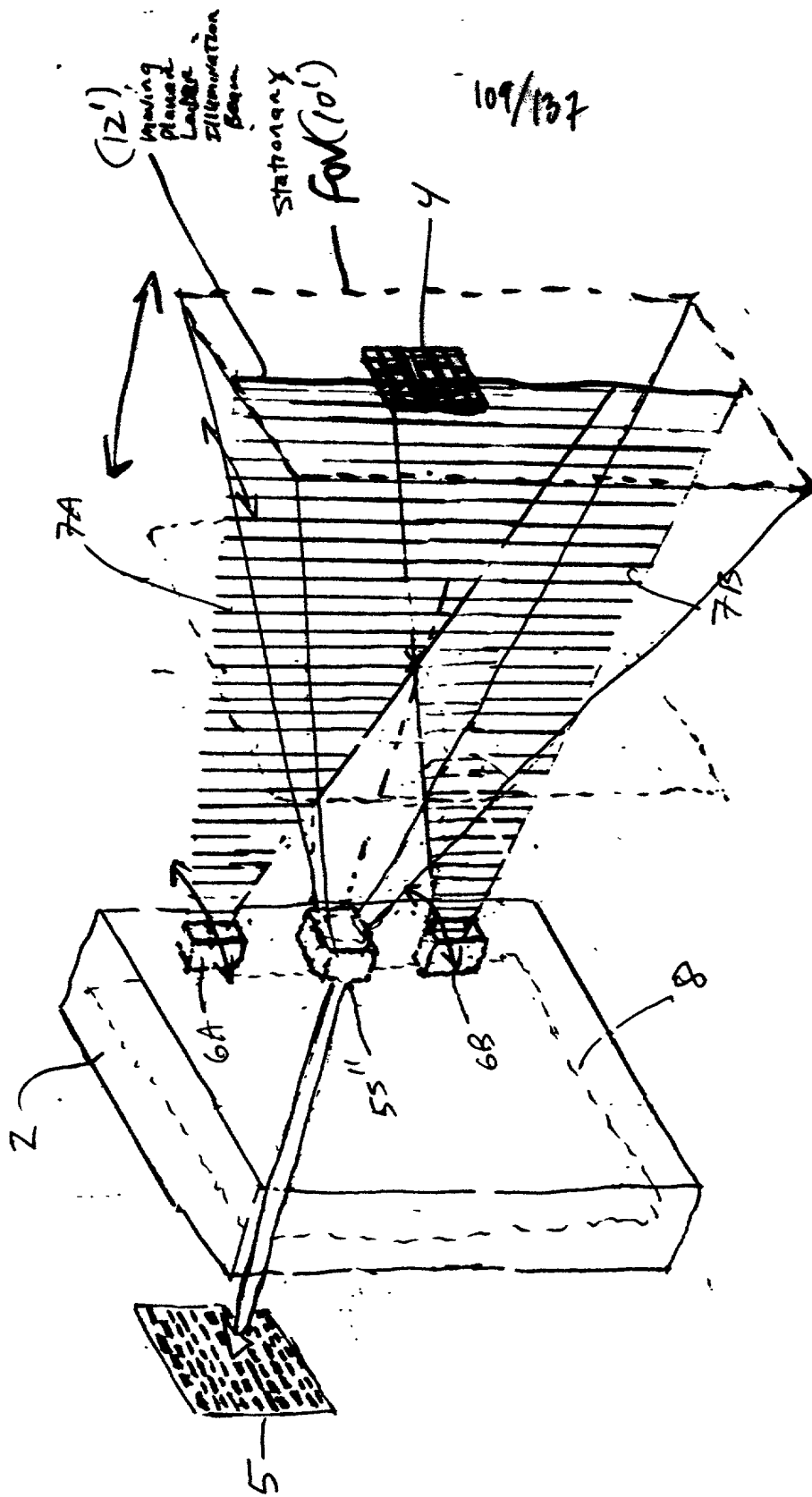


FIG. 6A

208210 T5065001

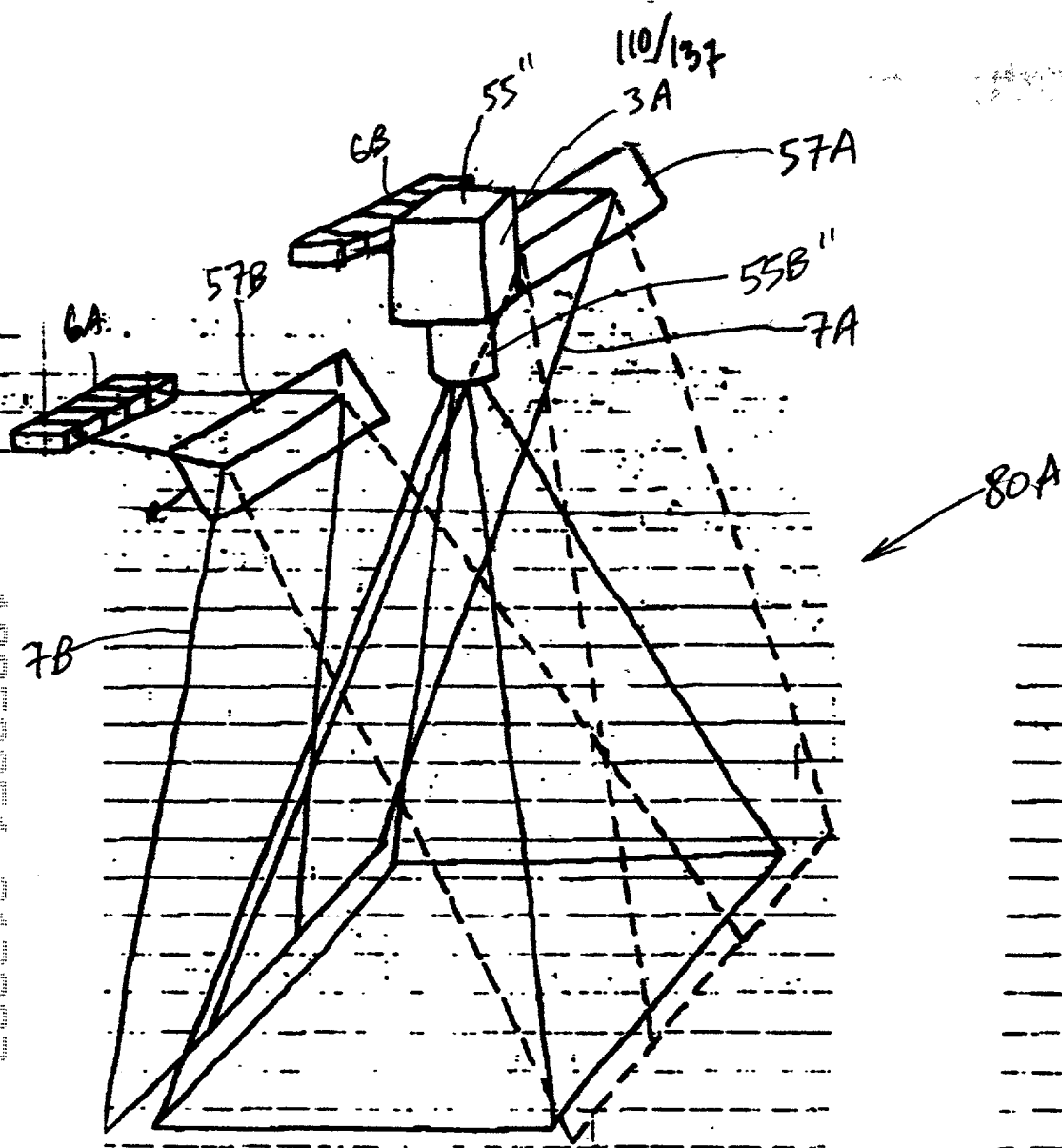


FIG. 6B1

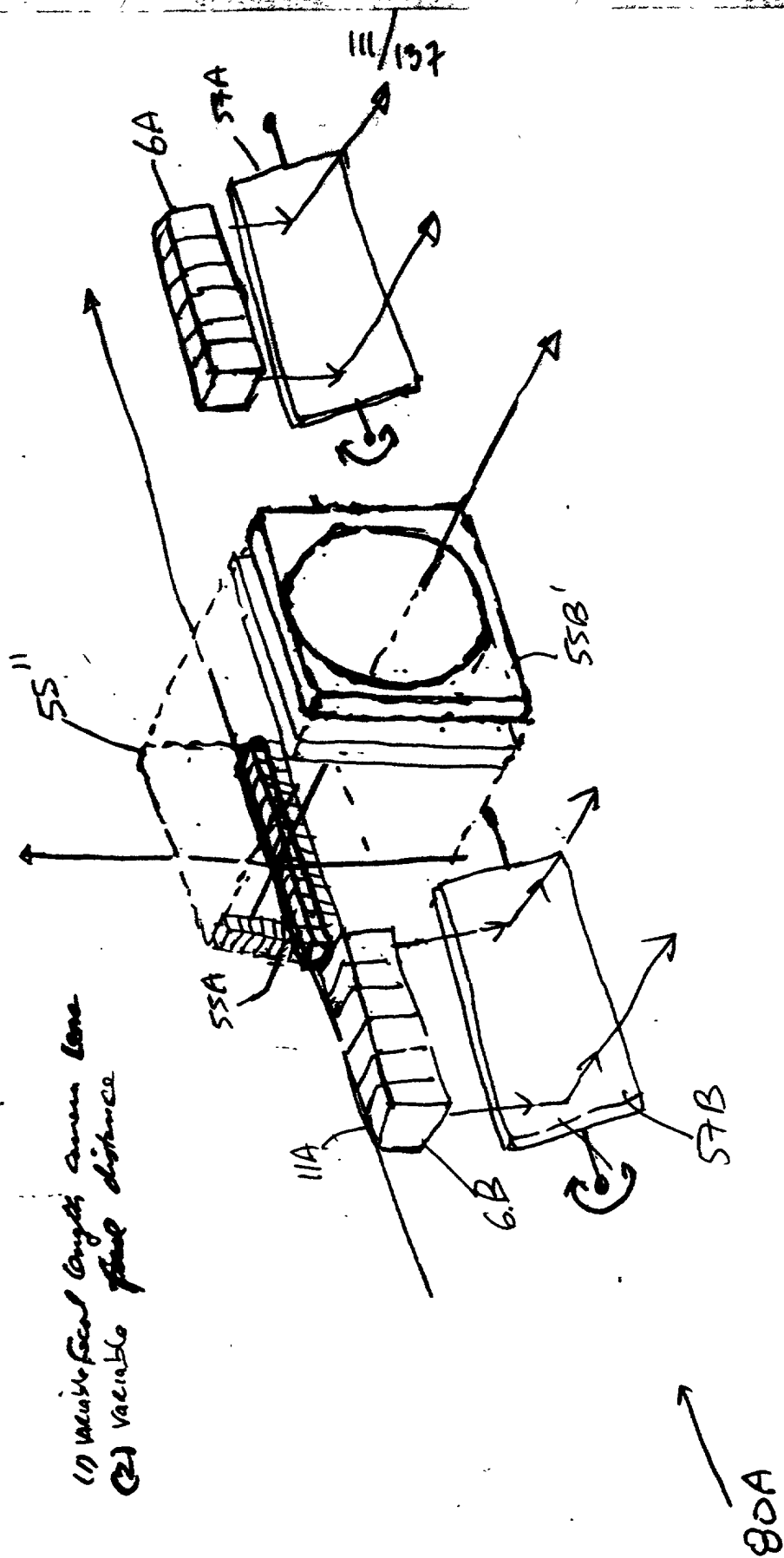


FIG. 6B2

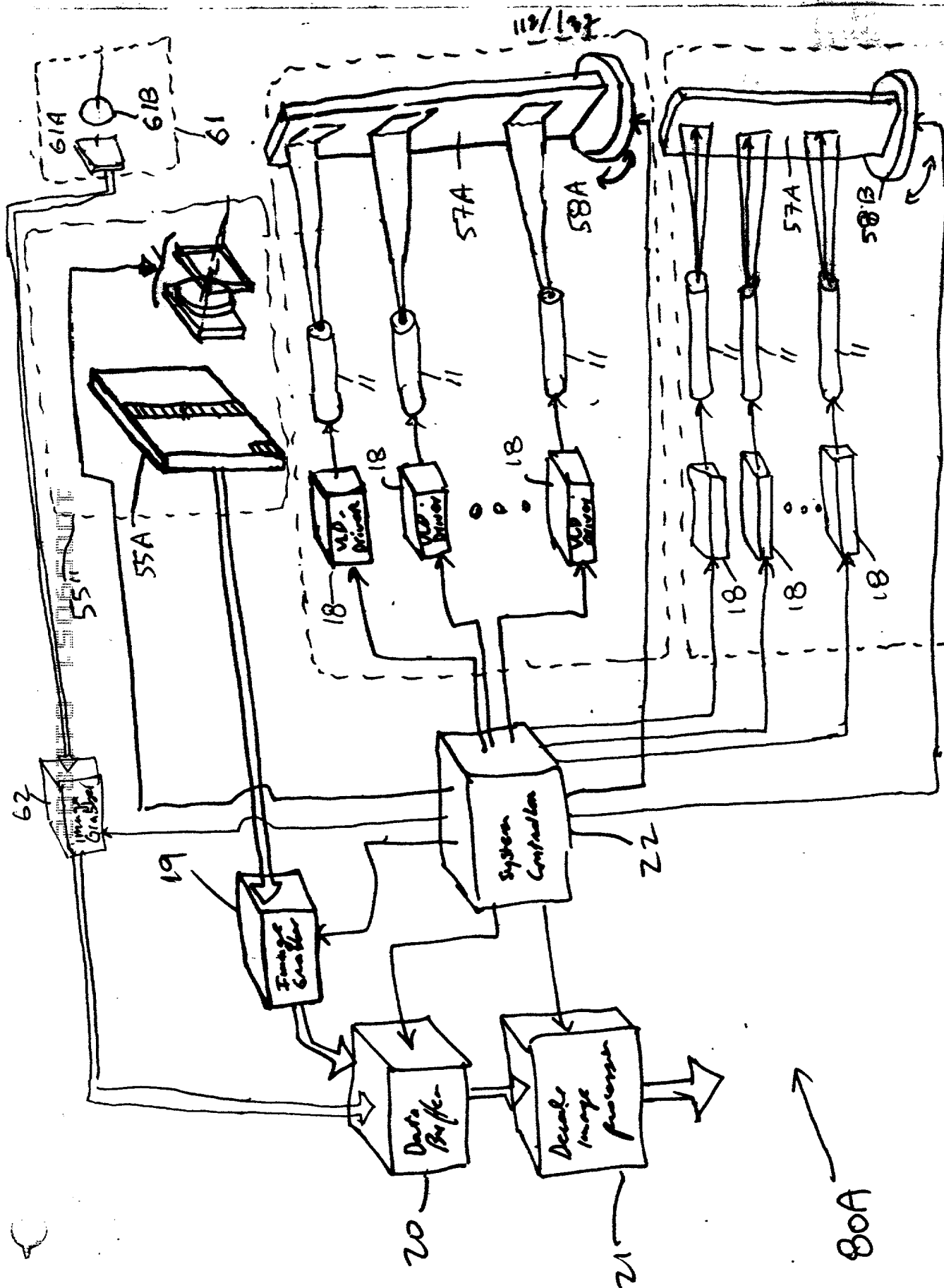


FIG. 6B3



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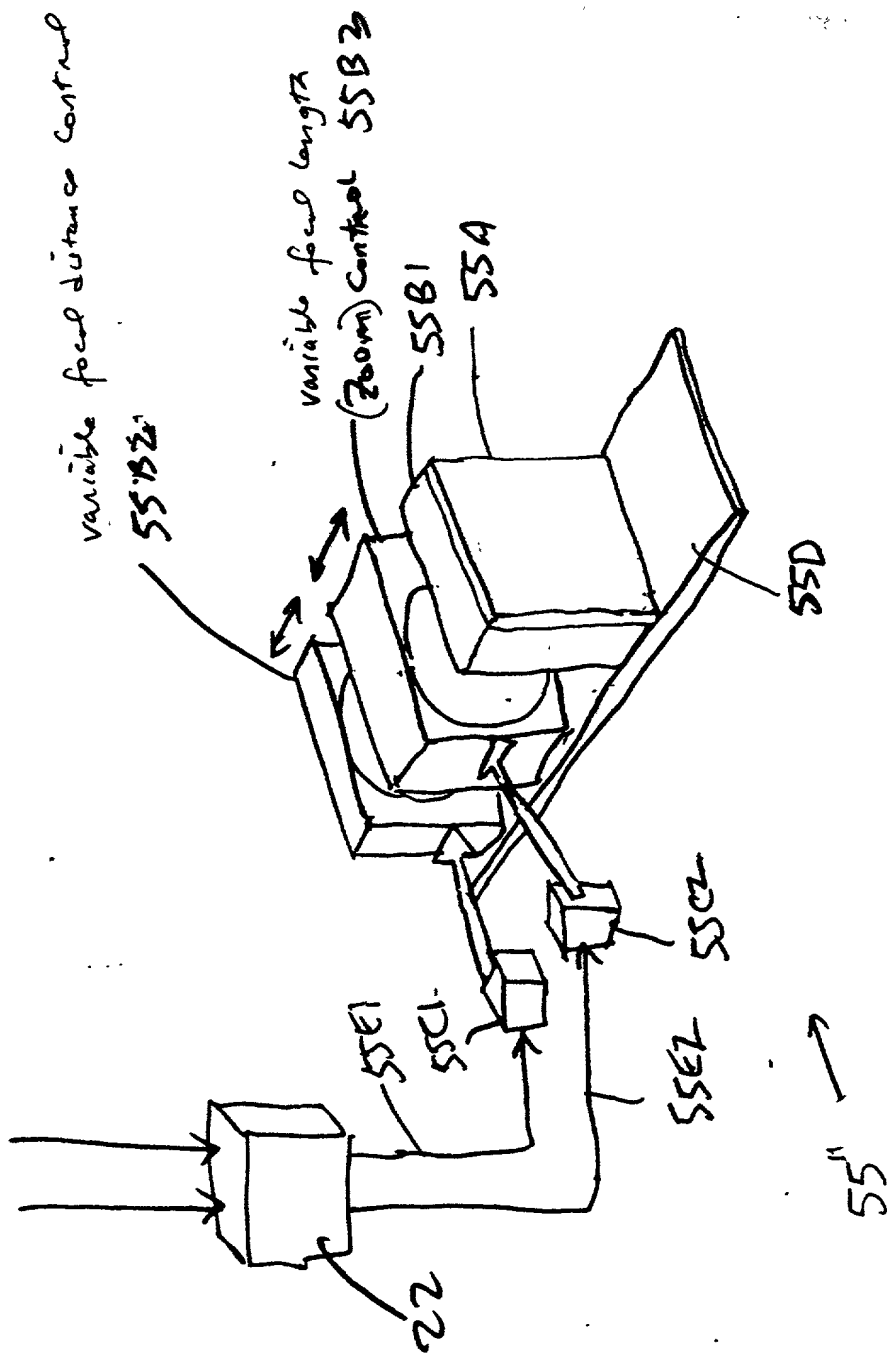


FIG. 6B4

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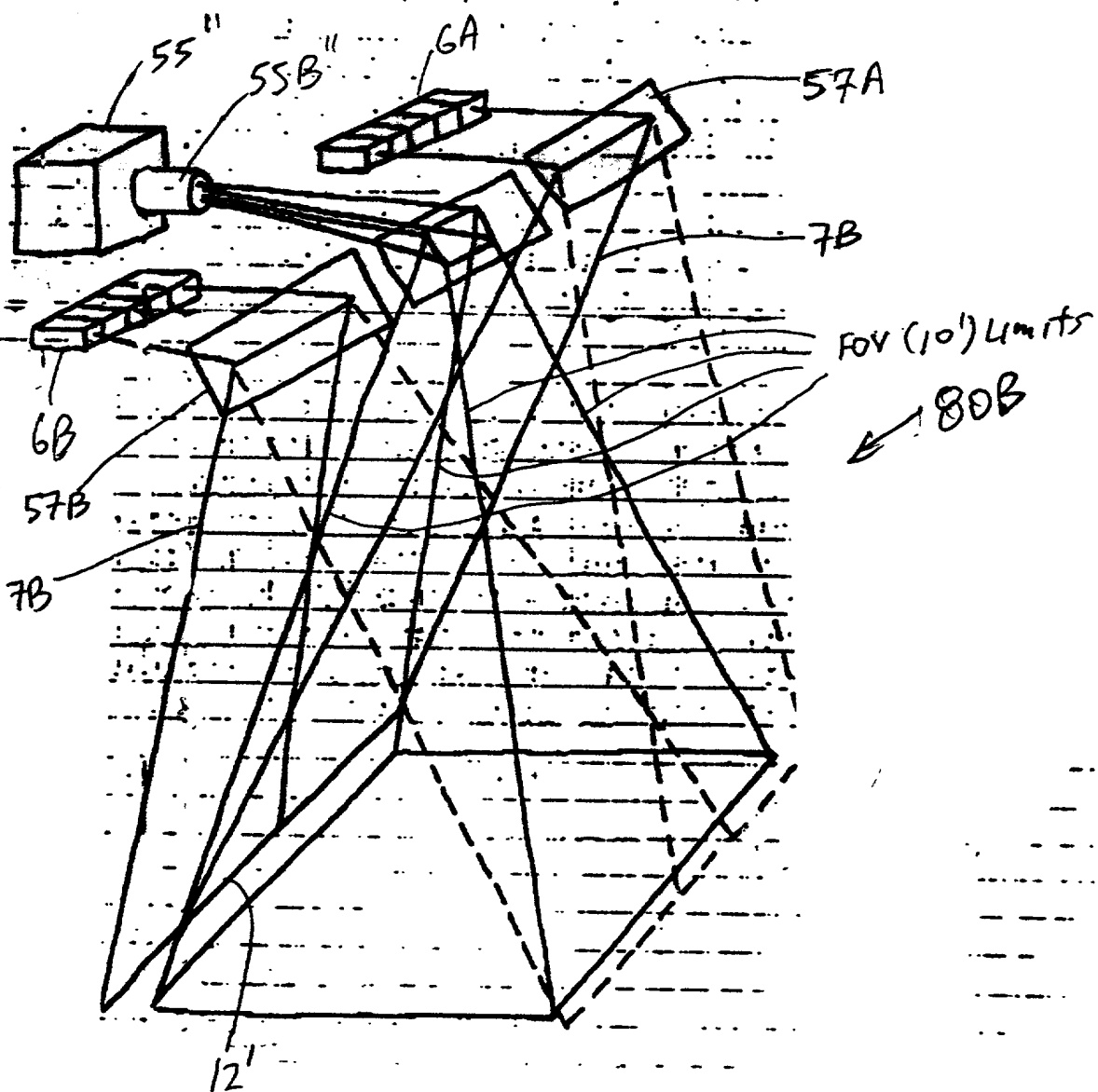


FIG. 6C1

- (1) Variable focal length camera lens
- (2) Variable fluid distance

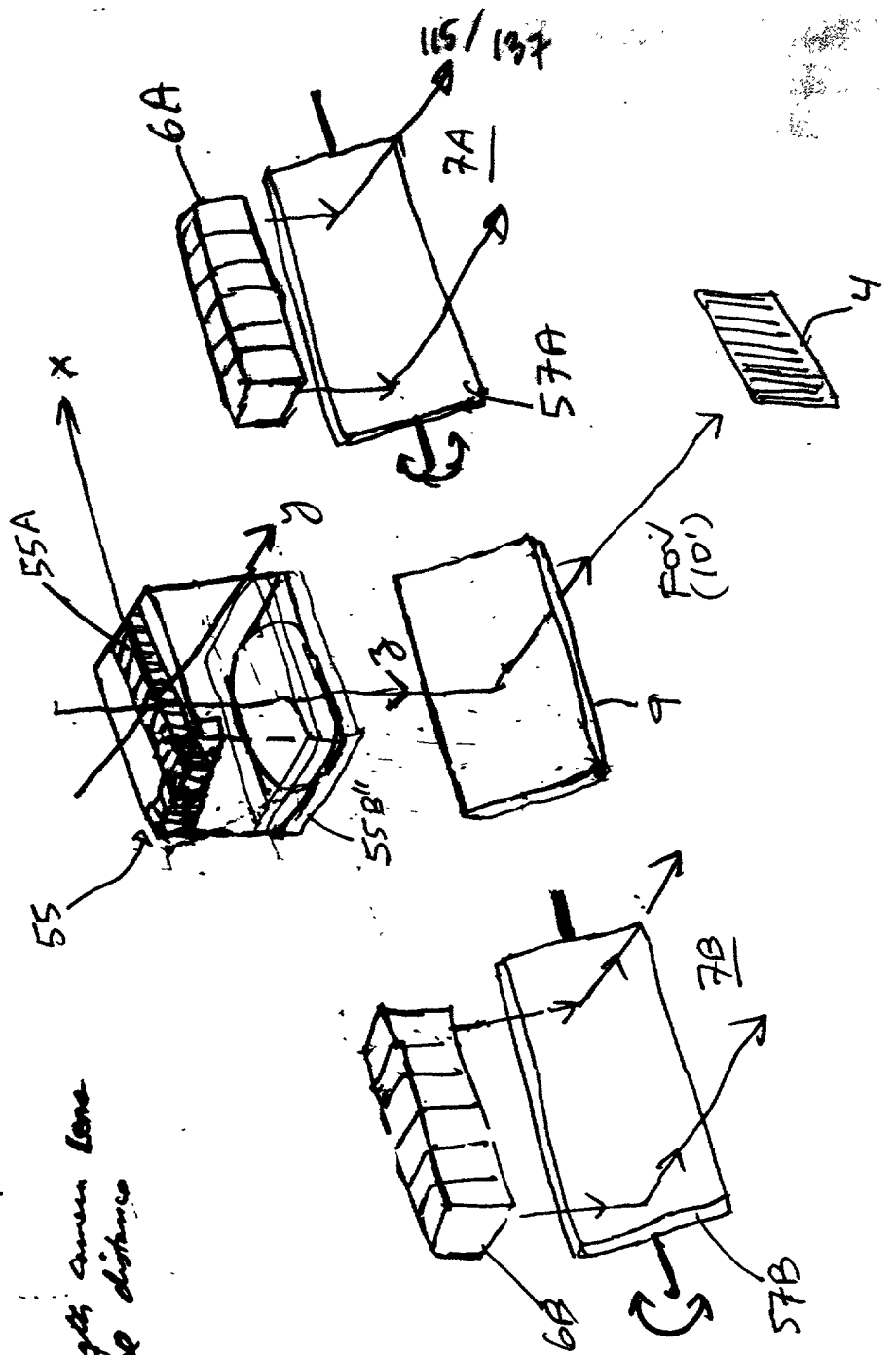


FIG. 6C2



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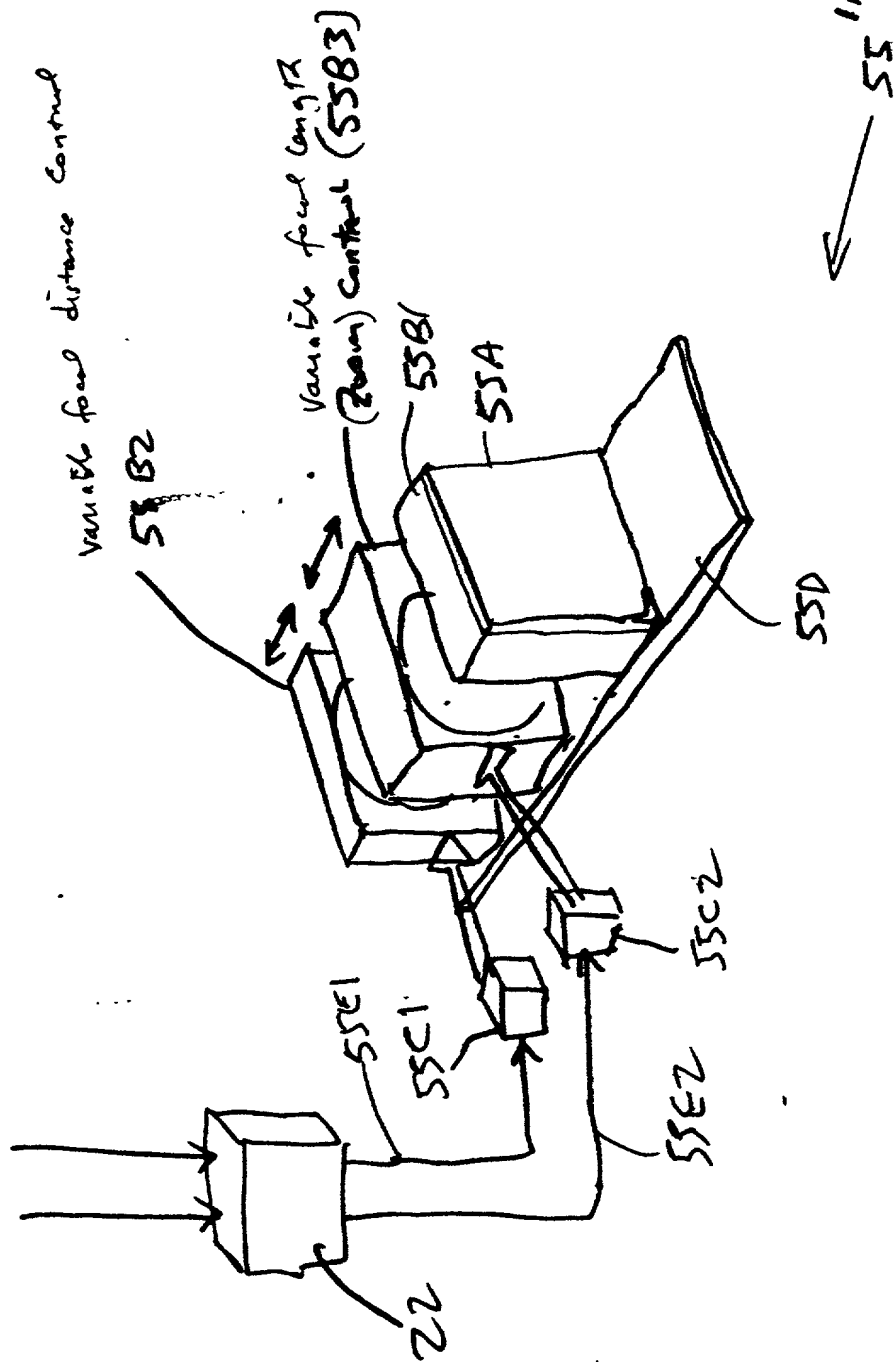


FIG. 6C4

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10059054.012802

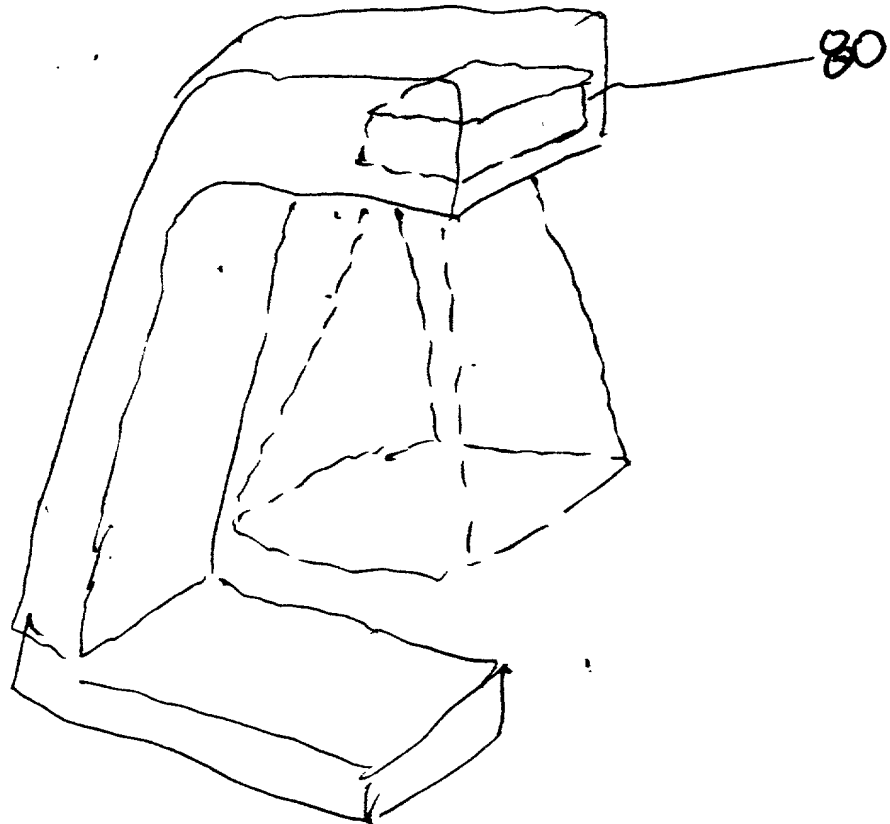


FIG. 6D

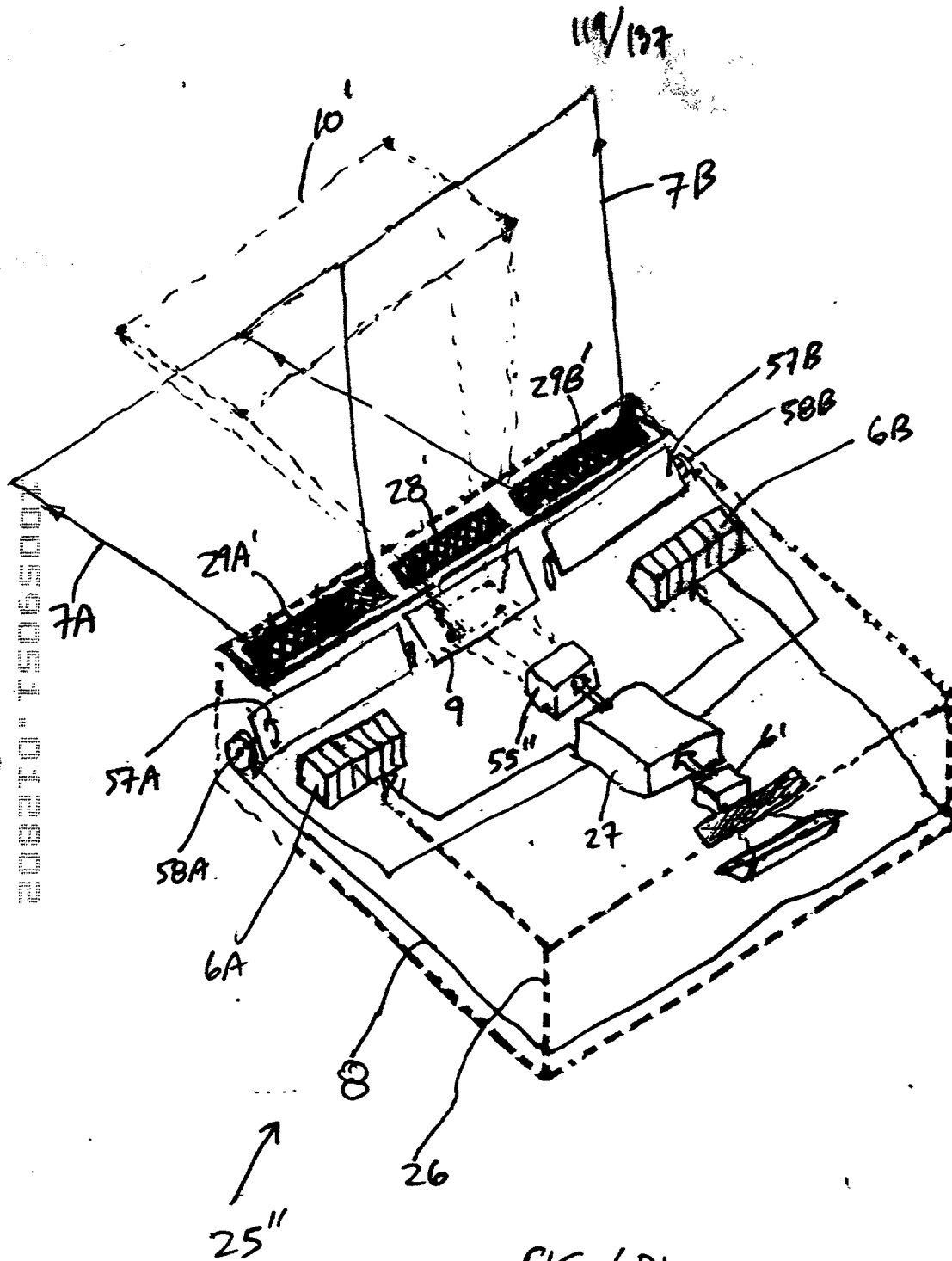


FIG. 6D1

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1005954.01200

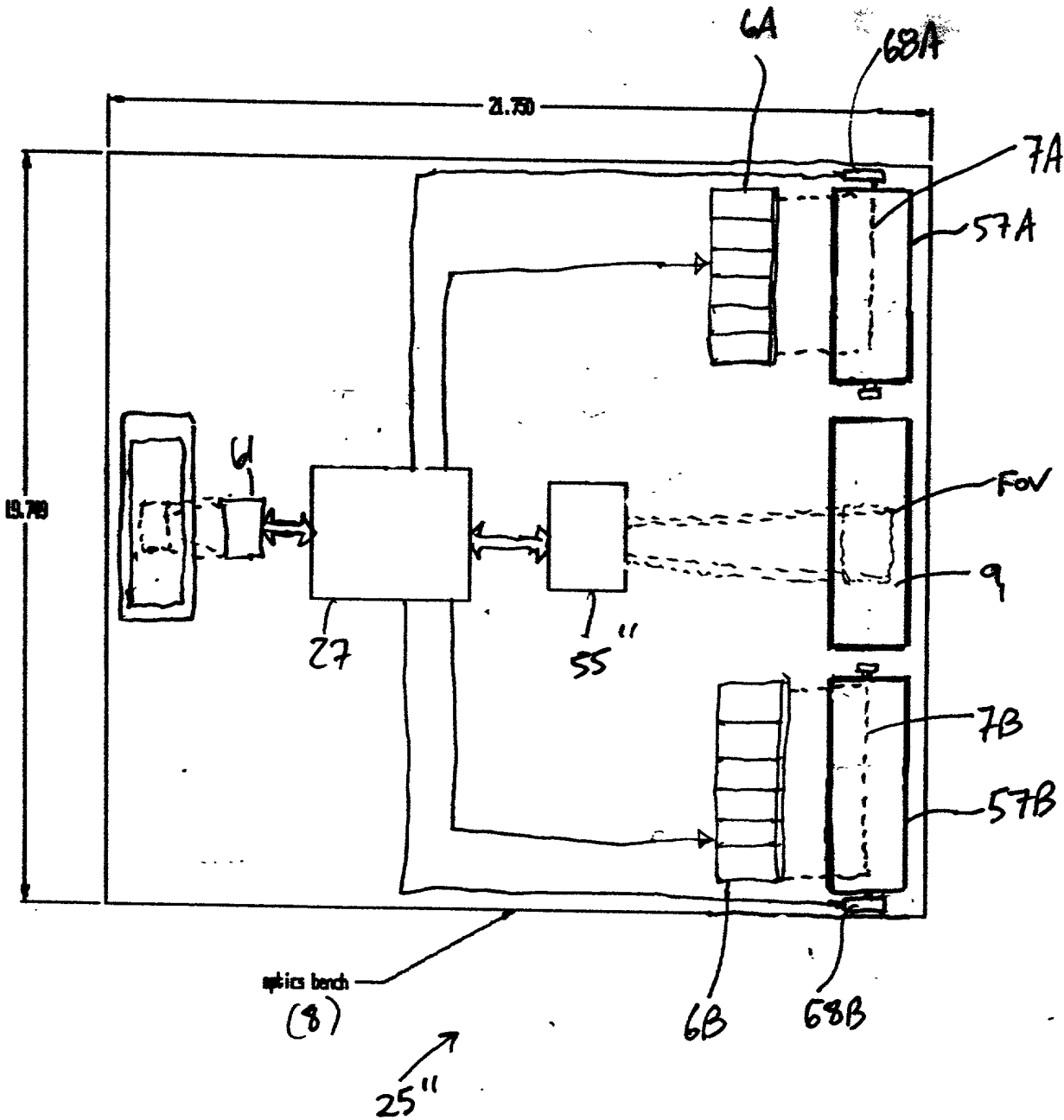
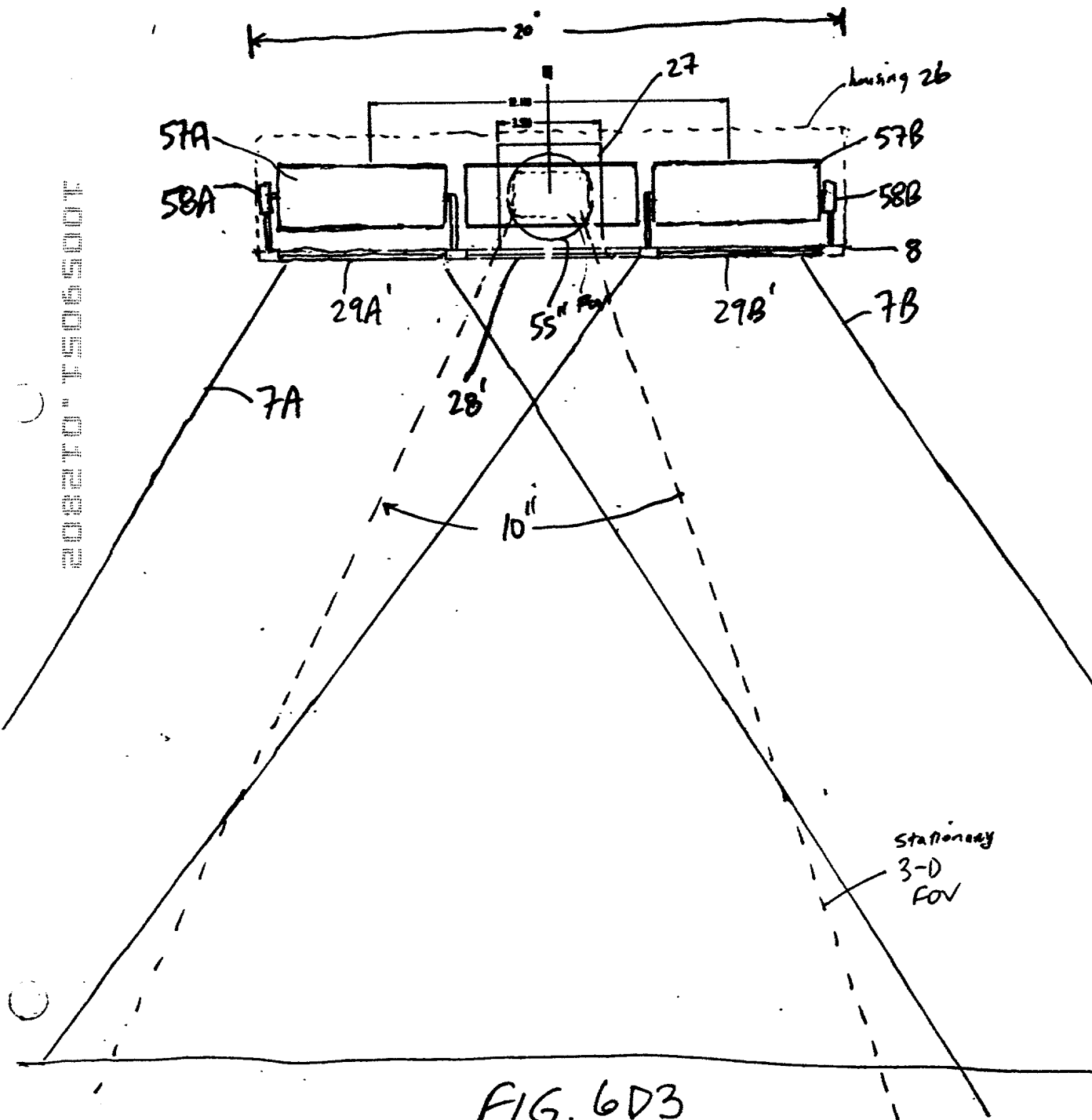


FIG. 6D2



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208270" T5065001

FIG. 6D3

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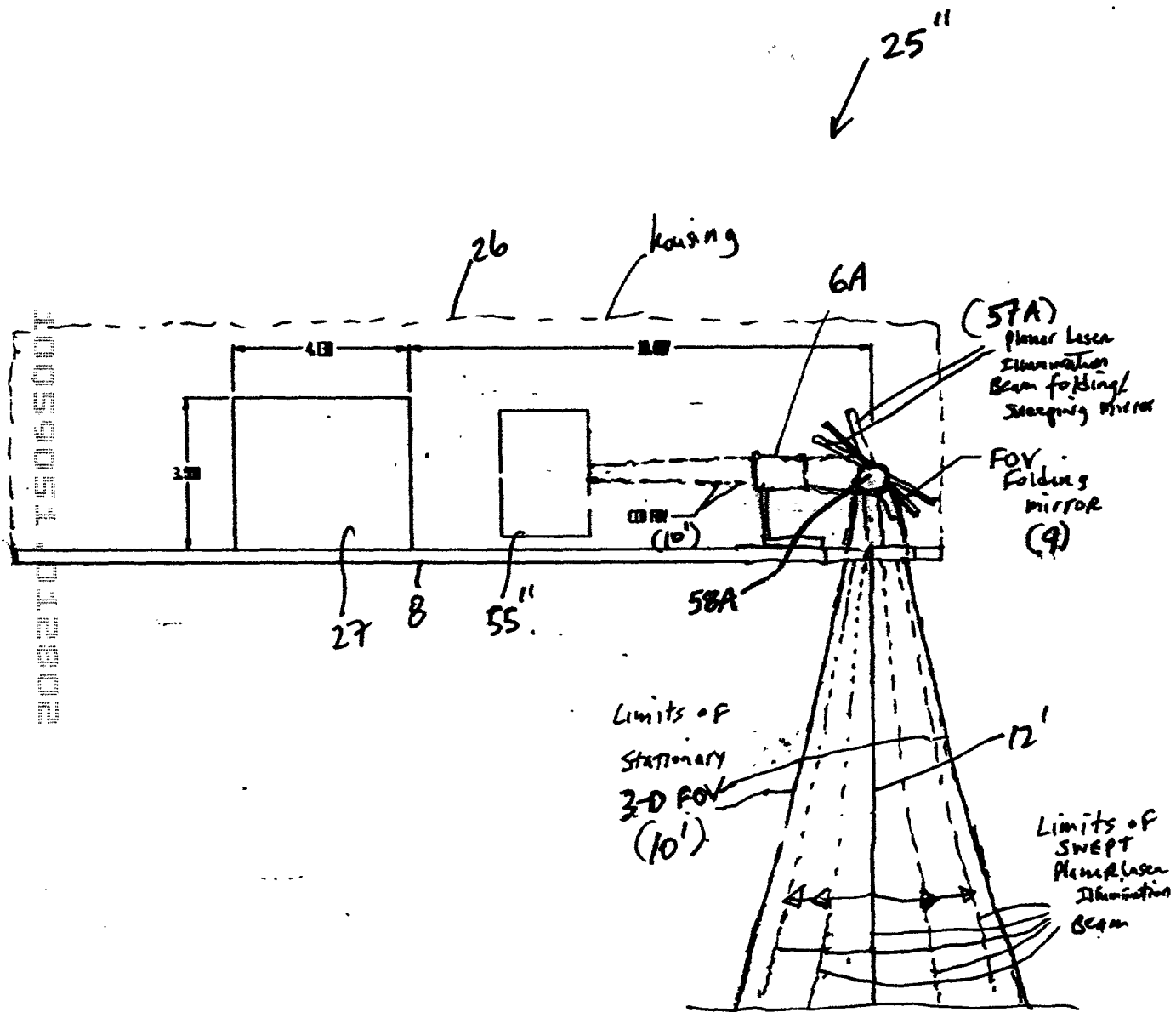


FIG. 6D4

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variable FOV

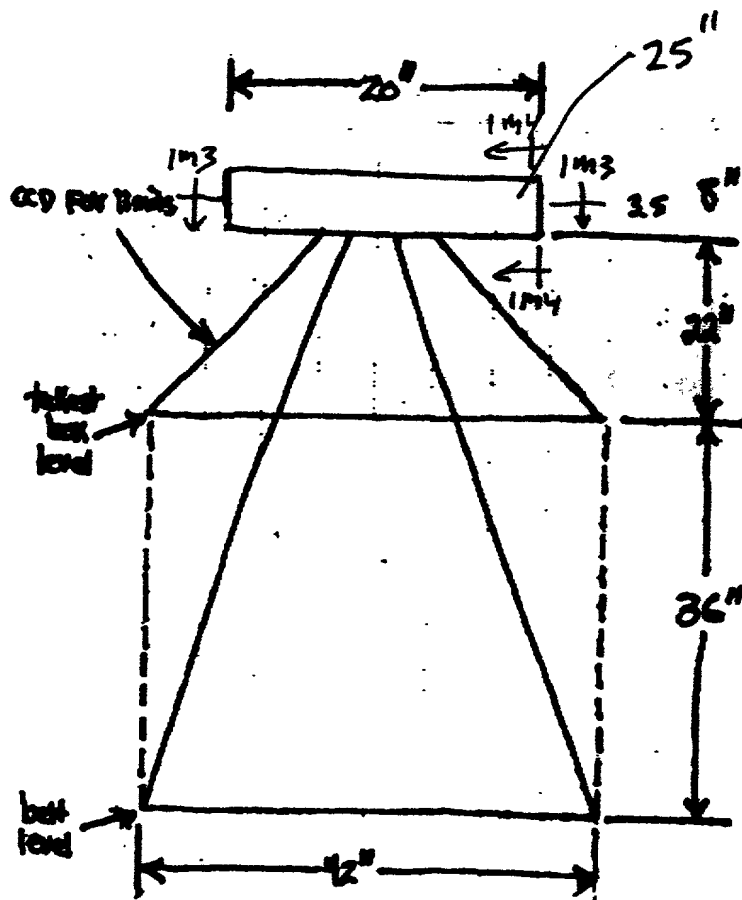


FIG. 6D5

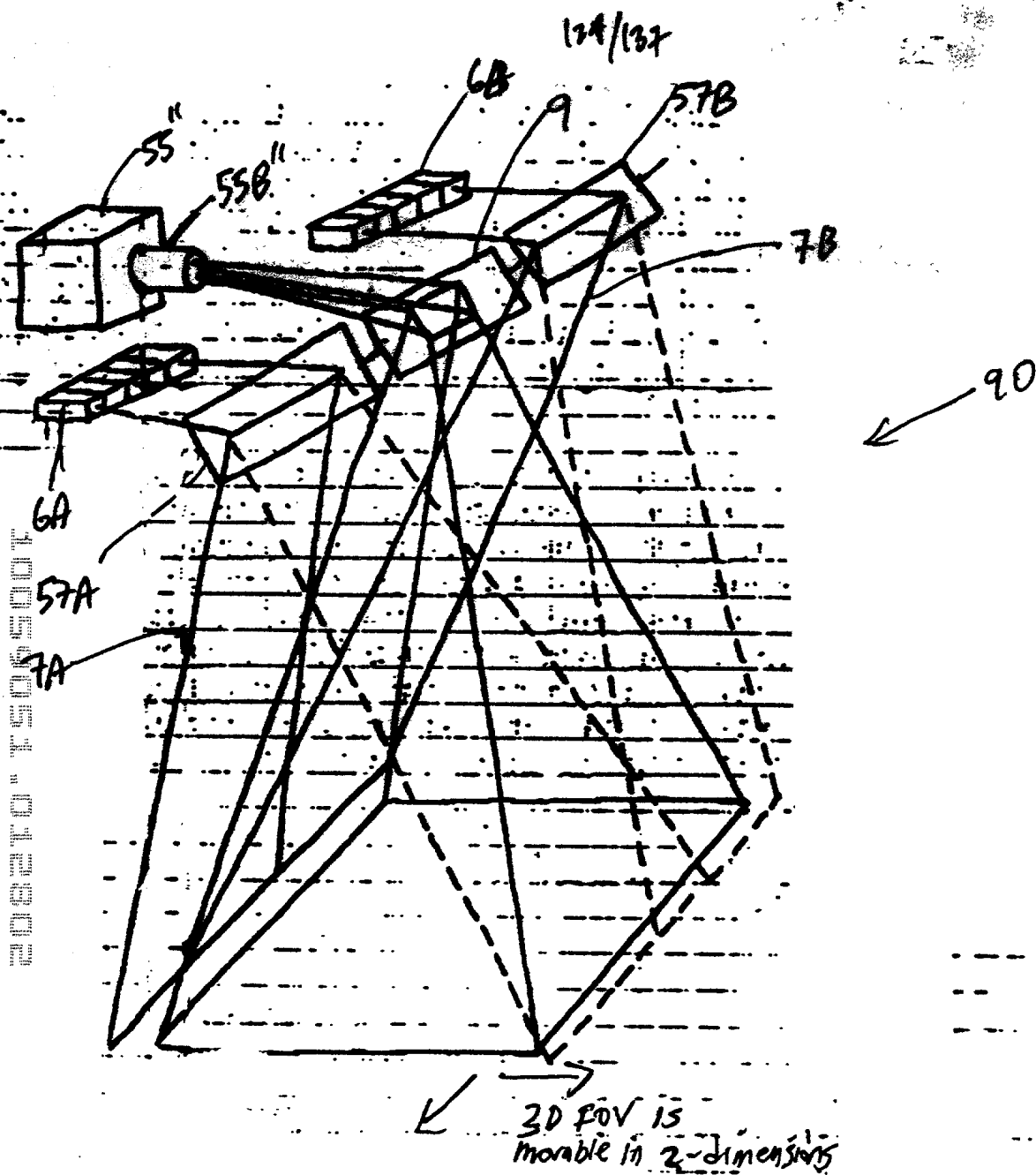


FIG 6E1

[illegible]

FIG. 6F2

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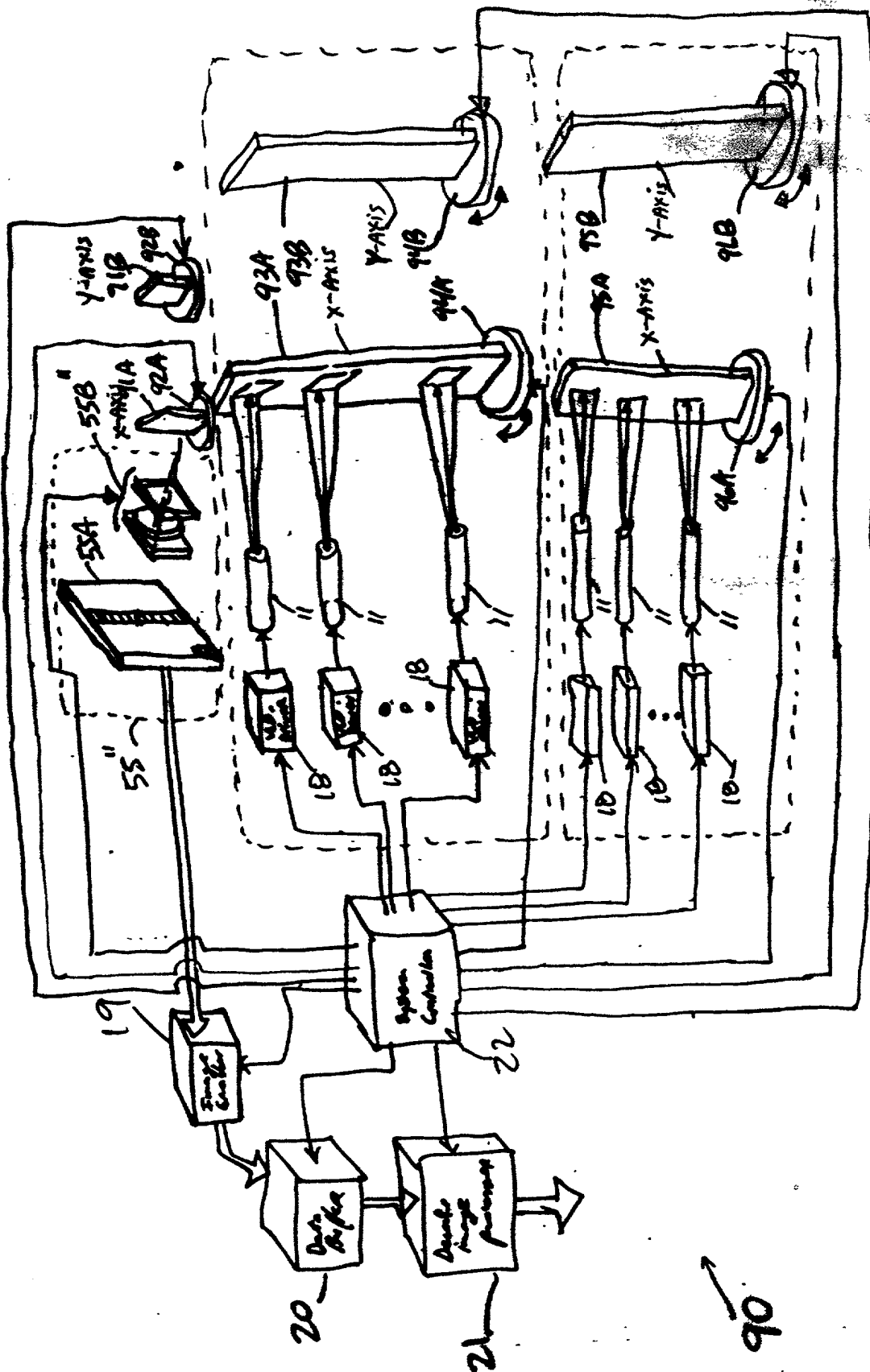


FIG. 6E3

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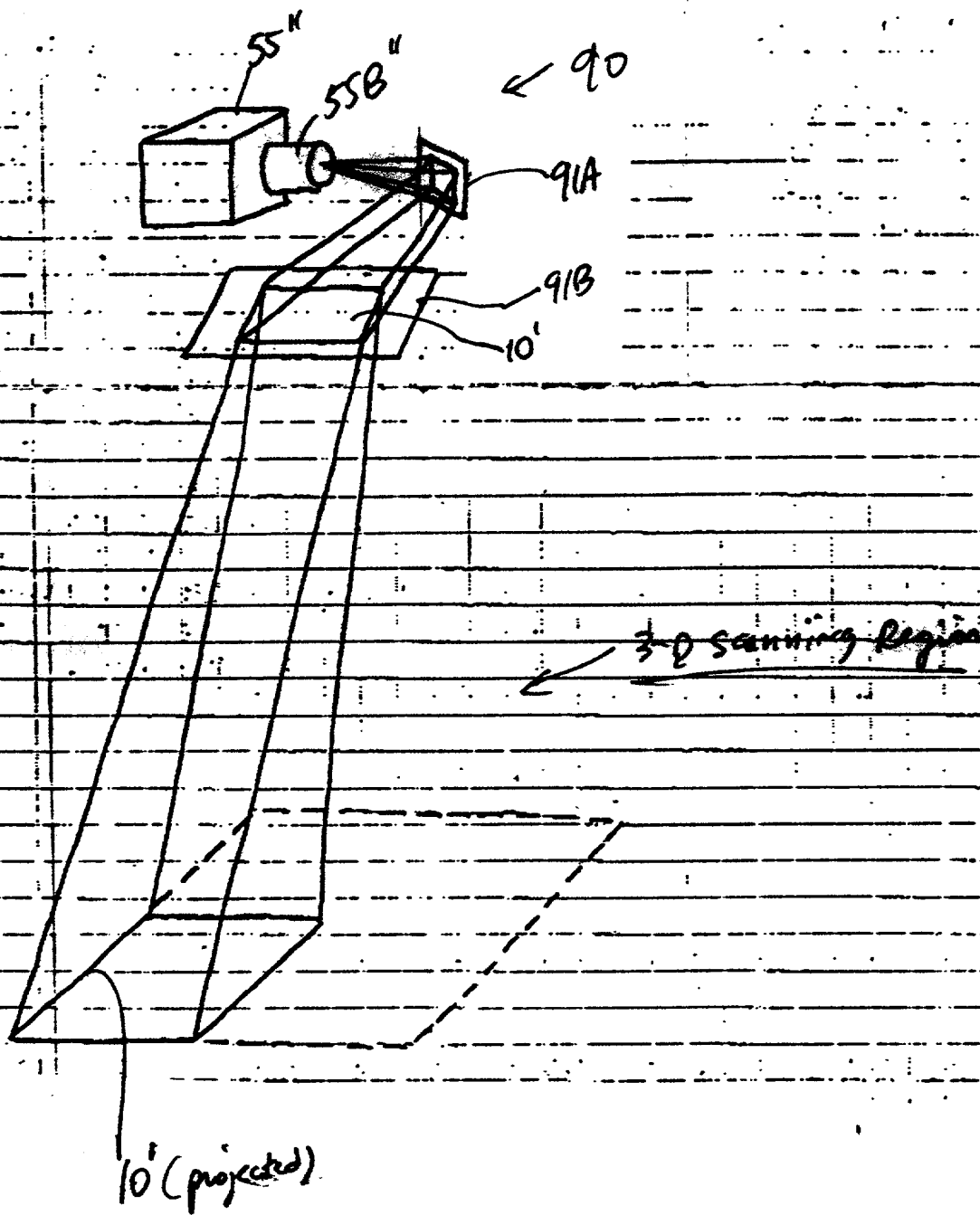
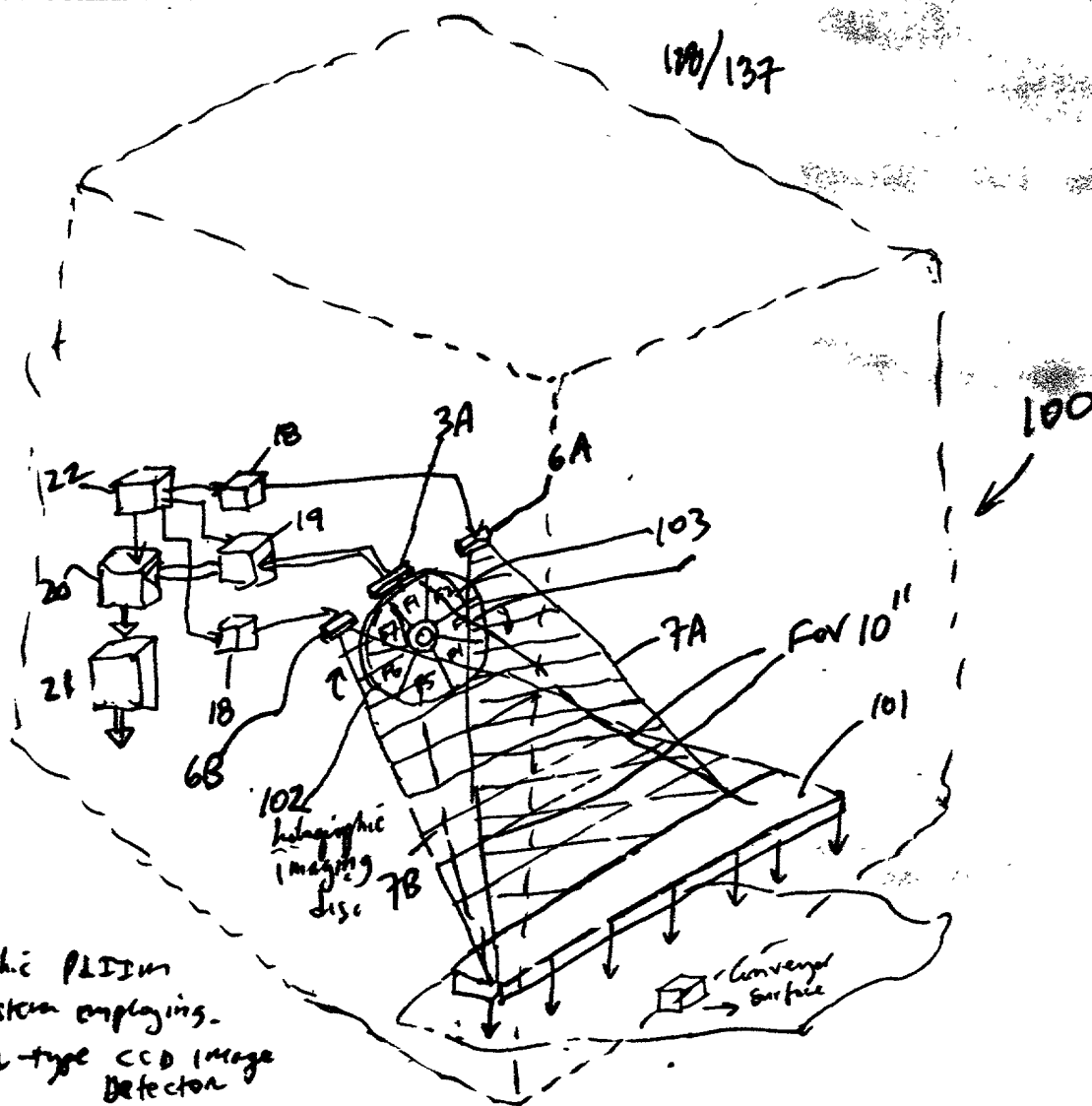


FIG. 6E4

2025051.012802



Holographic PLID system employing  
Line-type CCD image  
Detector

FIG. 7A

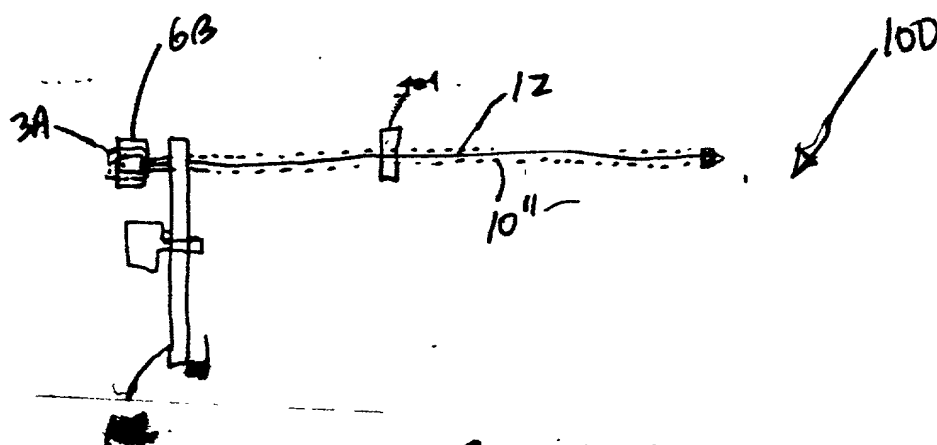


FIG. 7B



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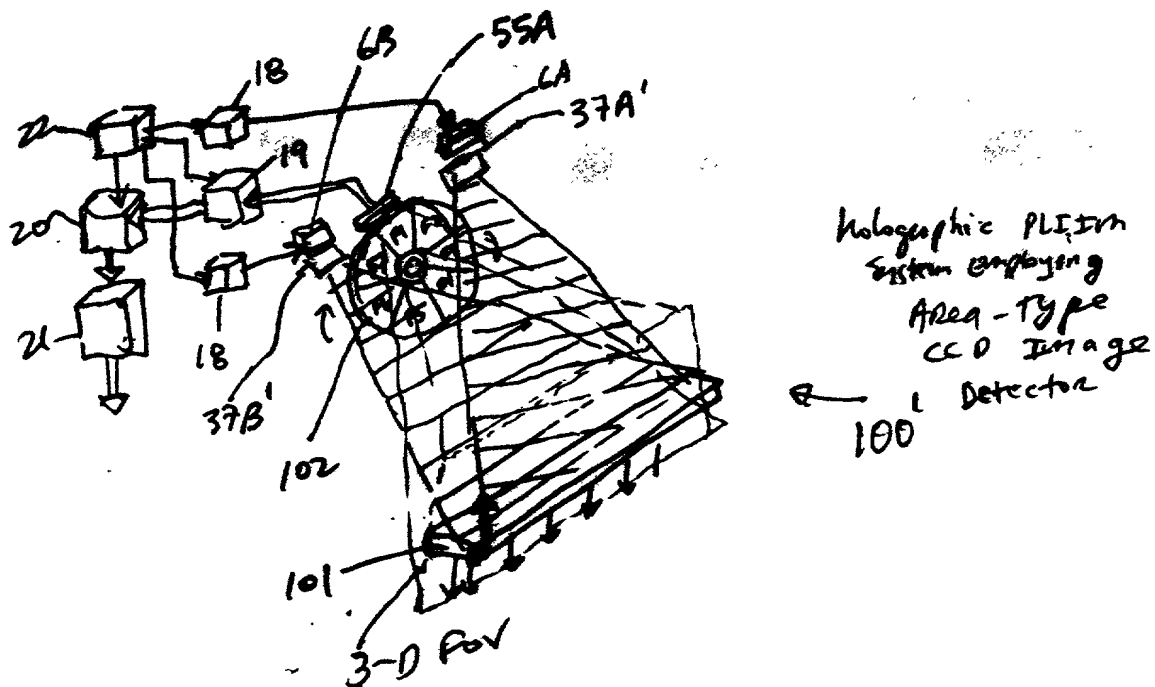


FIG. 8A

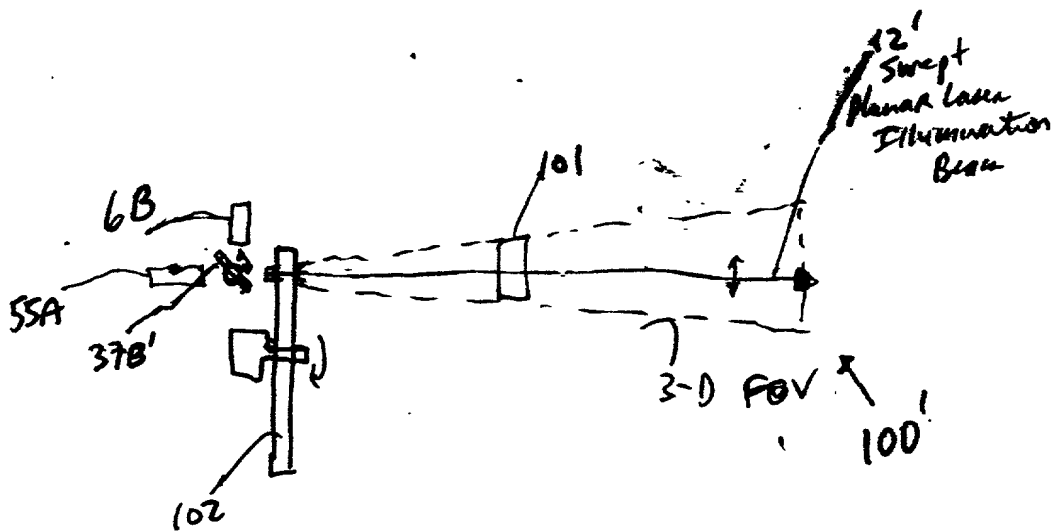


FIG. 8B

202510-15065001

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R<sub>LOCAL</sub> 1-D CCD SCANNER EMBODIMENT

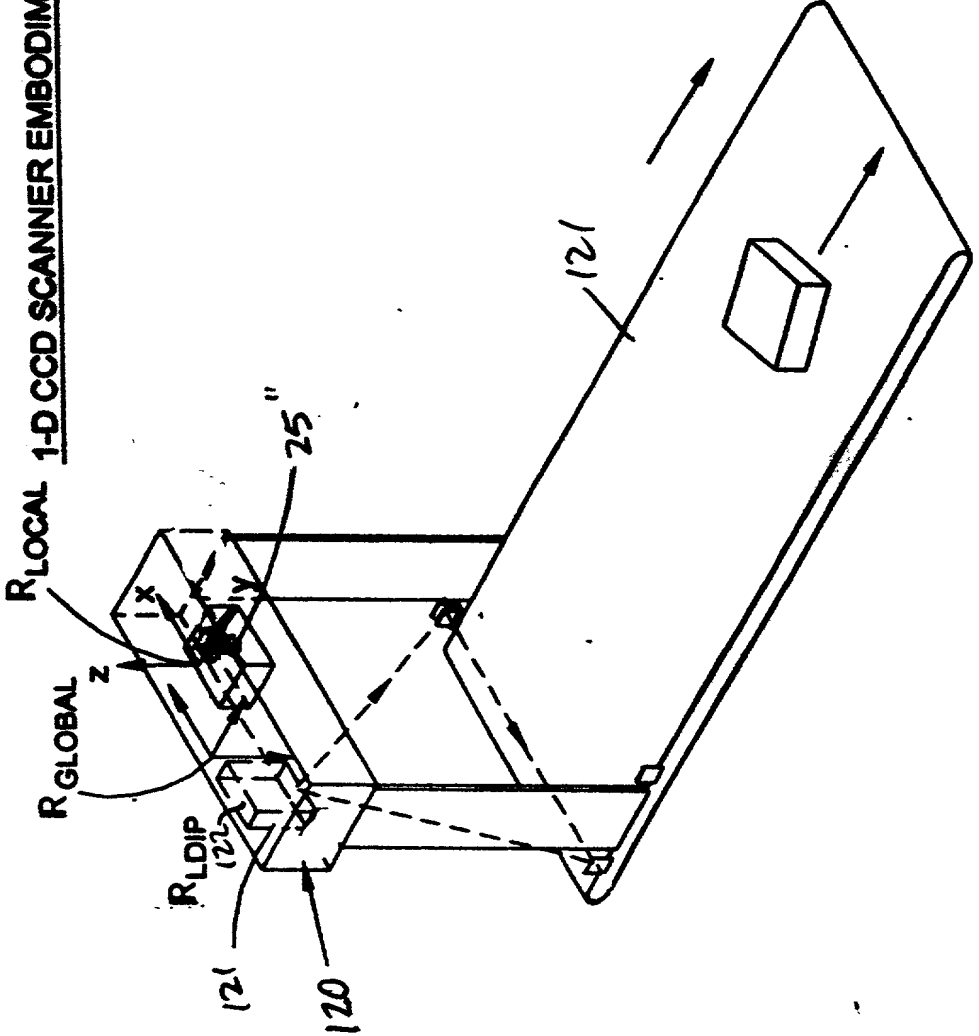


FIG. 9

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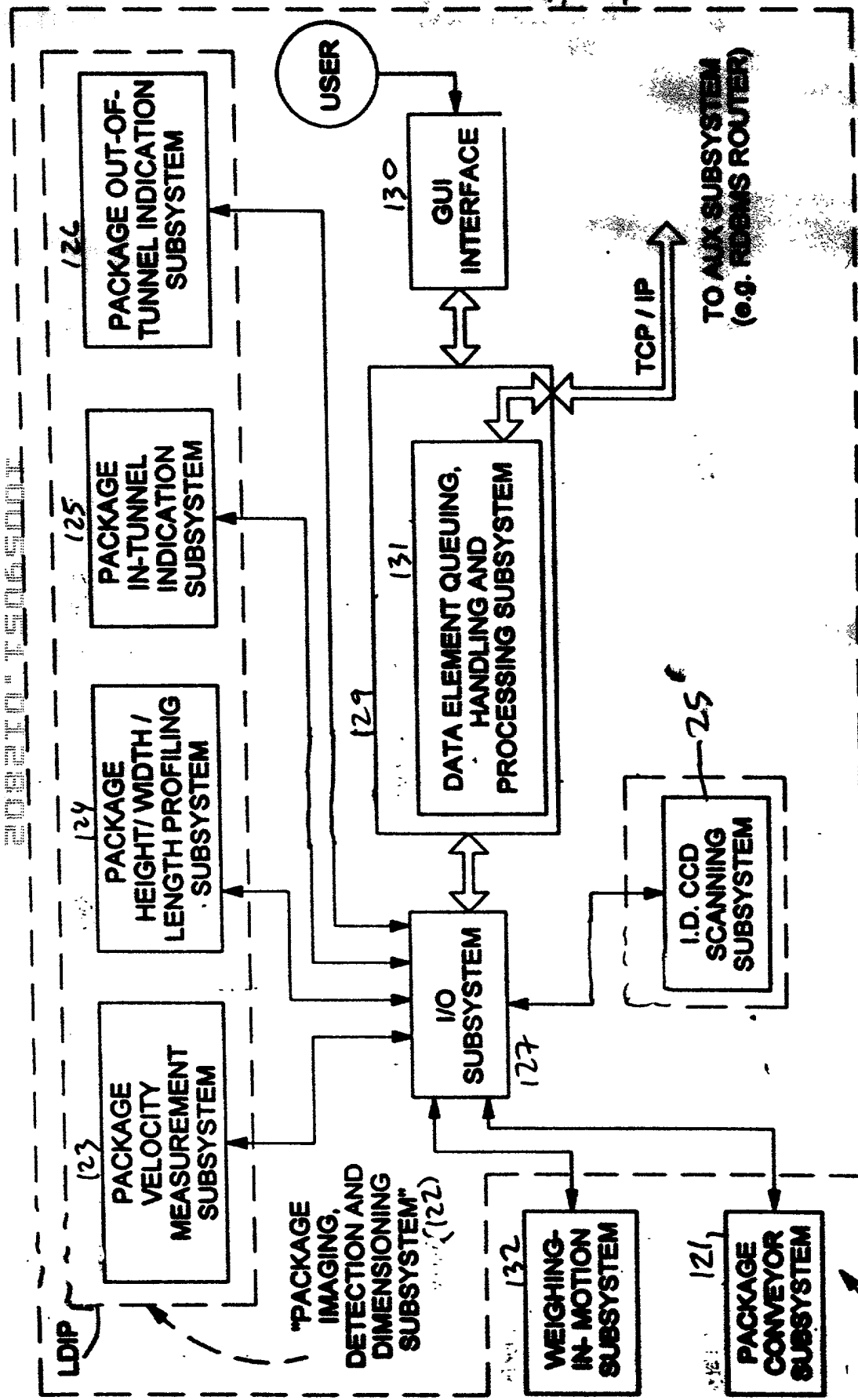


FIG. 10

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2022075065001

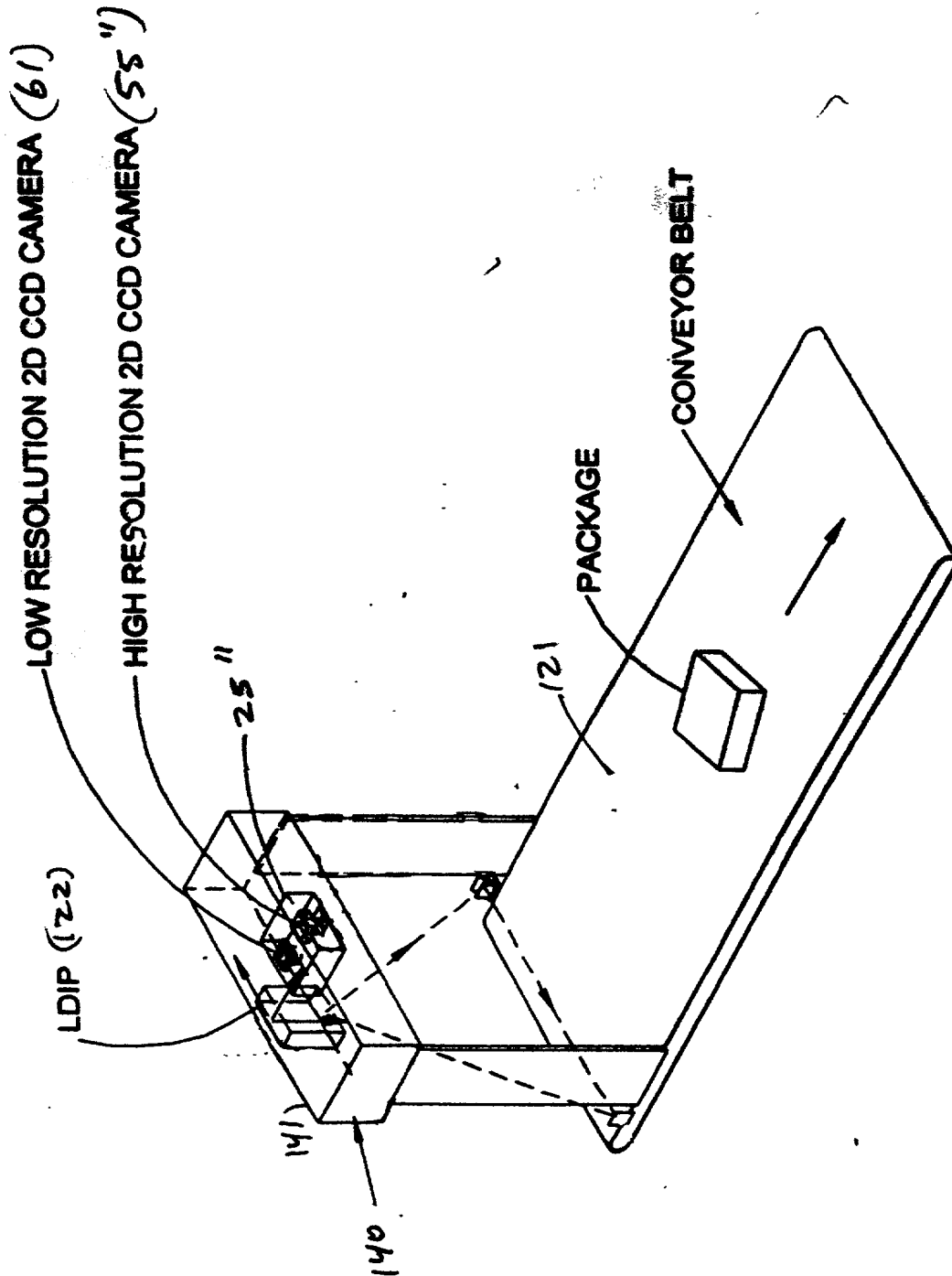


FIG 11

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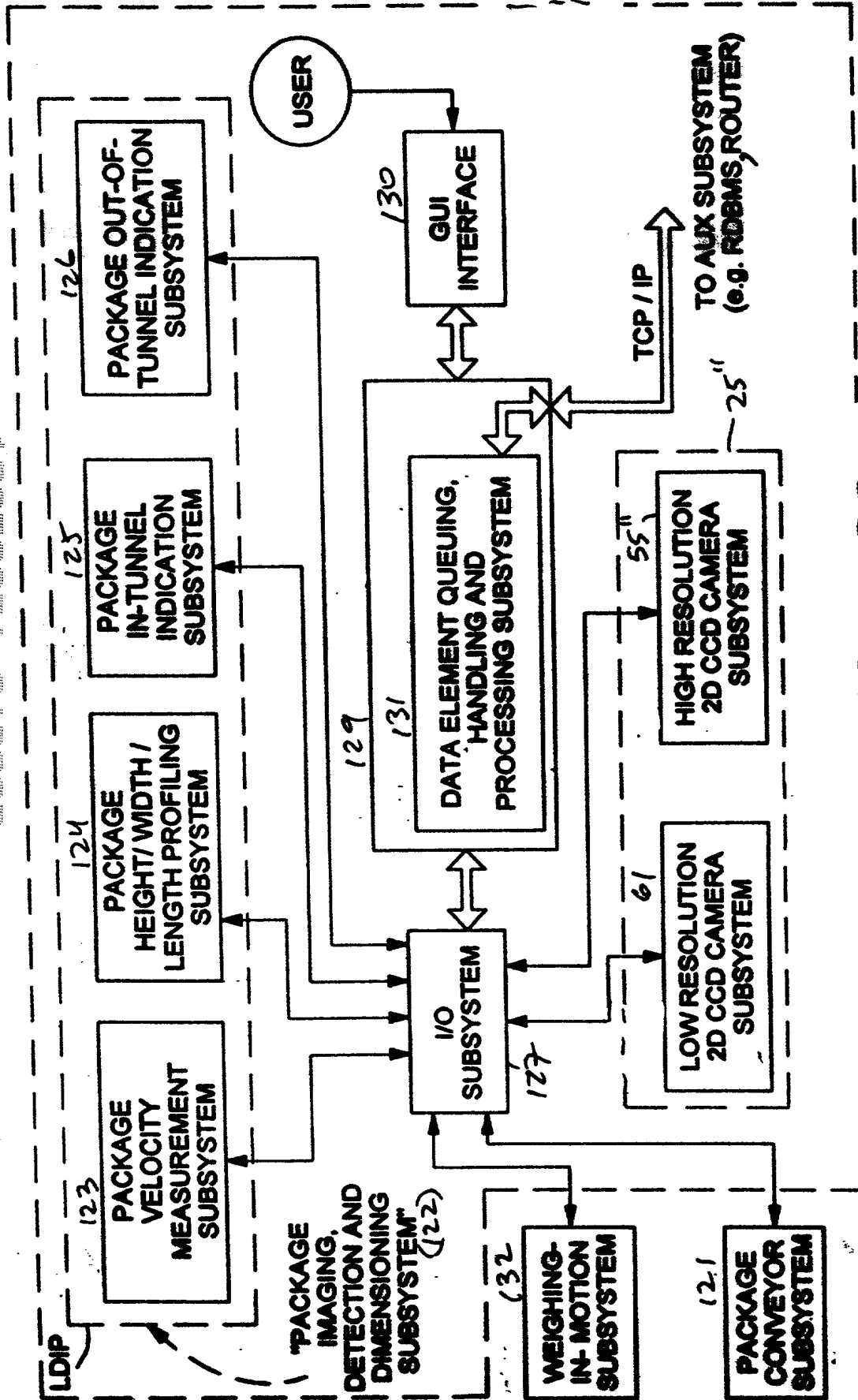


FIG. 12

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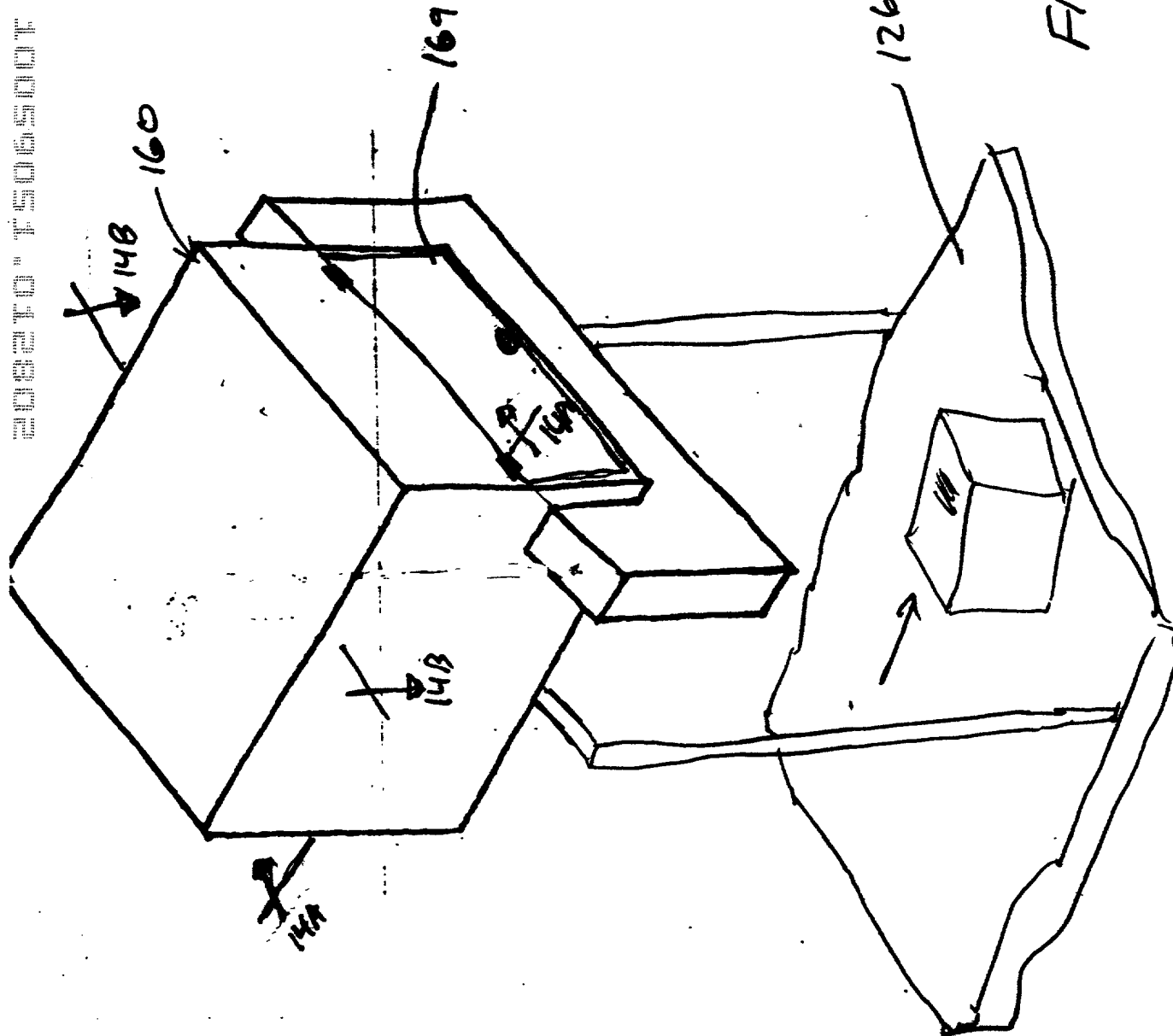


FIG. 13

20251015065007



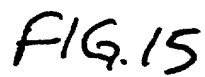
[illegible]

FIG. 15



2082FO 1506500F

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